

C 30.66/2:5.317

A UNITED STATES
DEPARTMENT OF
COMMERCE
PUBLICATION



U.S. DEPARTMENT OF COMMERCE
Environmental Science Services Administration
Environmental Data Service

KEY TO METEOROLOGICAL RECORDS DOCUMENTATION NO. 5.317

Catalog of Meteorological Satellite Data- ESSA 3 and ESSA 5 Television Cloud Photography

January 1 – March 31, 1968



PURPOSE

The Key to Meteorological Records Documentation Series has been established to provide guidance information to research personnel making use of climatological data.

Frequently users of such data have found it necessary to spend a great deal of time establishing whether the criteria for observing or computing various elements have changed over the period of record or in what form the data are available.

It is therefore hoped that the presentation of this series may not only conserve valuable time but may have a direct influence in improving the accuracy of research results.

EARLIER TIROS AND ESSA DATA CATALOGS

Earlier catalogs of TIROS and ESSA Meteorological Satellite data are available in this series, as follows:

- No. 5.31 "Catalogue of Meteorological Satellite Data - TIROS I Television Cloud Photography", published in 1961, price 70 cents.
- No. 5.32 "Catalogue of Meteorological Satellite Data - TIROS II Television Cloud Photography", published in 1963, price 20 cents.
- No. 5.33 "Catalogue of Meteorological Satellite Data - TIROS III Television Cloud Photography", published in 1962, price 70 cents.
- No. 5.34 "Catalogue of Meteorological Satellite Data - TIROS IV Television Cloud Photography", published in 1963, price \$1.00.
- No. 5.35 "Catalogue of Meteorological Satellite Data - TIROS V Television Cloud Photography", published in 1964, price \$1.75.
- No. 5.36 "Catalogue of Meteorological Satellite Data - TIROS VI Television Cloud Photography", published in 1964, price \$2.00.
- No. 5.37 "Catalogue of Meteorological Satellite Data - TIROS VII Television Cloud Photography Part 1 June 19, 1963 to December 31, 1963", published in 1965, price \$1.25.
- No. 5.37 "Catalogue of Meteorological Satellite Data - TIROS VII Television Cloud Photography Part 2 January 1, 1964 to June 30, 1964", published in 1965, price \$1.00.
- No. 5.37 "Catalogue of Meteorological Satellite Data - TIROS VII Television Cloud Photography Part 3 July 1, 1964 to December 30, 1964", published in 1965, price \$1.00.
- No. 5.37 "Catalogue of Meteorological Satellite Data - TIROS VII Television Cloud Photography Part 4 January 1, 1965 to December 31, 1965", published in 1966, price 45 cents.
- No. 5.38 "Catalogue of Meteorological Satellite Data - TIROS VIII Television Cloud Photography Part 1 December 21, 1963 to June 30, 1964", published in 1965, price \$1.00.
- No. 5.38 "Catalogue of Meteorological Satellite Data - TIROS VIII Television Cloud Photography Part 2 July 1, 1964 to December 31, 1964", published in 1965, price \$1.00.

(Continued on inside back cover)



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**Catalog of
Meteorological Satellite Data-
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WASHINGTON, D.C.
1969

For sale by the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C., 20402.

Price \$2.00

PREFACE

This issue in the series of catalogs describing the television cloud photographs obtained by meteorological satellites includes material taken from both ESSA 3 and ESSA 5. It covers the period of January, February, and March 1968. The maps and listings generally follow the pattern established in the "Catalog of Meteorological Satellite Data - TIROS I Television Cloud Photography," published as No. 5.31 in the Environmental Data Service Series Key to Meteorological Records Documentation. However, digitized cloud maps replace the manually constructed nephanalyses which had been used in previous catalogs. There are two maps for each day; the first polar stereographic projection in each set is for the Northern Hemisphere and the second for the Southern Hemisphere. These maps are arranged according to pass day.

Documentation Section
National Environmental Satellite Center

USING THE CATALOG

1. Scan the digitized cloud maps for areas of particular interest.
2. When a picture of interest is located, the film can be ordered by date from the National Weather Records Center, Asheville, N. C., at a cost of \$8.50 per day.
3. Information for a particular pass, such as start time, subsatellite point (the point where the local vertical through the satellite intersects the earth's surface), and track number, may be determined by using the tabulated listings preceding the digitized cloud maps.

UDC 551.507.362.2:551.576:621.397.3:779(083.8)"1968-324"

551.5	Meteorology
.507.362.2	Meteorological satellites
.576	Clouds
621.3	Electrical engineering
.397.3	Television picture analysis
77	Photography
779	Collections of photographs
(083.8)	Catalogs, lists
"1968-324"	Winter, 1968

CATALOG OF METEOROLOGICAL SATELLITE DATA -
ESSA 3 and ESSA 5 TELEVISION CLOUD PHOTOGRAPHY
January 1, 1968 - March 31, 1968

The ESSA 3 meteorological satellite, launched on October 2, 1966 by the National Aeronautics and Space Administration, is the third Environmental Survey Satellite in the TIROS Operational (TOS) System. ESSA 3 was put into a nearly circular, sun-synchronous polar orbit, approximately 892 statute miles above the earth's surface with an apogee of 925 statute miles and a perigee of 859 statute miles. The orbit is inclined 79° (Retrograde) to the equatorial plane with a nodal period of 114.5 minutes which corresponds to slightly less than 13 circuits of the earth each day.

ESSA 3 is a TIROS type satellite in a "cartwheel" configuration which allows earth-oriented picture coverage. The spacecraft is spin-stabilized and magnetically torqued to a wheel attitude, so that the spin axis is normal to the plane of the orbit and the radially mounted cameras view the earth once during each spacecraft revolution about its axis.

The cameras in the ESSA 3 satellite are one inch diameter vidicons (television camera tube) of the Advanced Vidicon Camera System (AVCS) type. Each picture covers an area of approximately 4,000,000 square miles. One camera provides full global coverage, therefore, two cameras provide full system redundancy.

Each of the cameras can independently take pictures and store them for later playback to one of the Command-and-Data-Acquisition (CDA) stations which are located at Wallops Station near Chincoteague, Va., and Gilmore Creek, Fairbanks, Alaska.

Pictures, taken every 260 seconds, are usually obtained in sequences of twelve frames to a pass. Each frame is electronically gridded by computer with latitude and longitude lines and geographic outlines merged with the picture. An identification legend underneath each picture provides the following information: year, month, day, hour, minute and second of picture taking time; track and zone numbers; station initial; satellite number; mode; camera; latitude of a labeled grid intersection near the picture center; latitude spacing of grids in degrees; longitude of a labeled grid intersection near the picture center; longitude spacing of grids in degrees; pass number; frame number; and sun glint position. The picture, figure 1, is located in the area of track 1 (TABLE 1) zone 70 (not referenced), with the latitude and longitude point of the picture located at 65°N and 55°W . The grids are spaced 5° both in latitude and longitude and sun glint is shown in the picture at 59°N and 60°W .

For ESSA 3 the system of "TRACKS" is used to identify the general geographic areas over which picture sequences were taken. These tracks are listed in the ESSA 3 track table (TABLE 1) which appears in this catalog immediately following the tabulated listings. The track boundaries are parallel to the path followed by the subsatellite point during the daylight portion of each orbital pass. The width of each track is exactly equal to the amount the earth rotates between consecutive passes. Thus, in general, the subsatellite point makes one traverse along each track each day (from midnight to midnight, GMT). The track boundaries are fixed permanently for the life of ESSA 3, and are arbitrarily referenced to the point 0° latitude, 0° longitude, with track numbers increasing westward.

Since the ESSA 3 orbital period of 114.5 minutes is not an exact submultiple of 24 hours, the satellite starts 12 and 13 passes on alternate days. This results in track 13 being much narrower than the others and, thus, it is not traversed every day. There are also days on which one particular track is traversed just after GMT midnight, and again later the same day just before GMT midnight.

The ESSA 5 meteorological satellite, launched on April 20, 1967, has characteristic features similar to ESSA 3. When pictures from ESSA 5 more nearly fit the operational requirements for data they are combined with pictures from ESSA 3 in the digitized cloud maps.

ESSA 5, like ESSA 3, was put into a nearly circular polar orbit, approximately 892 statute miles above the earth's surface, with an apogee of 922 statute miles and a perigee

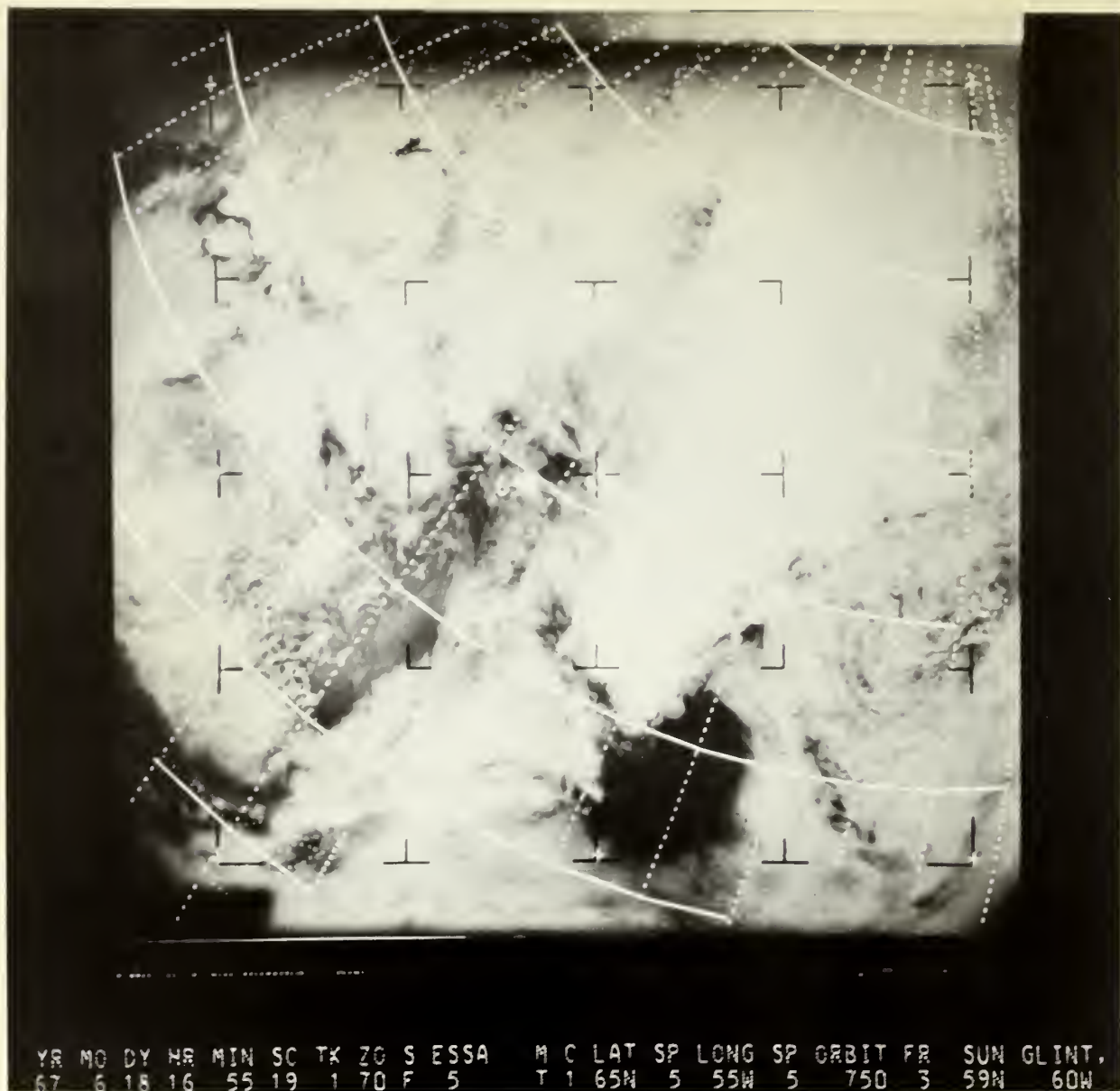


Figure 1 - Example of ESSA 5 Cloud Photography

ESSA 3 similar

of 861 statute miles. The orbit inclines 78.42° to the equatorial plane with an orbital period of 113.6 minutes which corresponds to 12.7 passes around the earth each day.

The cameras in the ESSA 5 satellite are of the same design as those in the ESSA 3 satellite. Picture coverage of the entire sunlit area of the earth is possible each day. Each camera can independently take pictures and store them on tape for later playback to a CDA station in the same manner as ESSA 3 photos.

Pictures, taken at 260 seconds, are in sequences of 6 or 12 frames to a pass, each frame being electronically gridded to show latitude, longitude and geographic outlines on the picture. The grids are generally spaced at 5° intervals of latitude and longitude. The identification legend underneath each picture supplies all pertinent information.

The "track" system of ESSA 5 is similar to that of ESSA 3 and track boundaries are fixed for the life of the satellite. They are used to identify the geographic areas over which picture sequences were taken. These tracks are listed in the ESSA 5 track table (TABLE 2) which immediately follows the ESSA 3 track table (TABLE 1).

Since the ESSA 5 orbital period of 113.6 minutes is not an exact multiple of 24 hours, the satellite starts 12 and 13 passes on alternate days. This results in track 13 being much narrower than the others and, thus, is not traversed every day. There also are days on which one particular track is traversed just after GMT midnight, and again later the same day just before GMT midnight.

On the film reels, picture sequences are grouped together by track number and assembled in chronological order. Track numbers are stamped on the film immediately preceding the sequence to which they apply.

The following pages of tabulated listings give descriptive information about the pictures obtained by ESSA 3 and ESSA 5. In the listings each picture sequence is described by one line, and the sequences are grouped together by date and track number. This is the order in which they appear on the film reel. The column headings and entries have the following meanings:

PASS: Orbital pass number on which the pictures were taken.

TRACK: Defines the geographic area which contains the path of the subsatellite point. The entries refer to TABLES 1 and 2.

C: Camera number indicated in the legend.

1 = Camera number one

2 = Camera number two

S: Command-and-Data-Acquisition (CDA) station which received the sequence.

W = Wallops Station, Va.

F = Fairbanks, Alaska

ALONG: Longitude of ascending node (equator crossing)

MODA: Month and day on which the pictures were taken.

HRMNSE: Time in hours, minutes and seconds of the first picture taken.

SUBSATELLITE POINT PICTURE LOCATION: Indicates the latitude in degrees of the subsatellite point for each of the twelve frames in the orbital pass sequence. First latitude column corresponds to picture frame No. 12

To prohibit operating temperatures from reaching a level considered possibly detrimental to spacecraft components, it was found necessary to tilt the ESSA 3 spacecraft from mission mode during the period January 1, 1968 through March 31, 1968. The tilt (approximately 15 to 20 degrees) reduced the usable picture area and caused gaps in coverage which are particularly apparent in the digital mosaics. To provide the user with a better indication of the areal extent and quality of the data available for this period, it was decided to replace the digital mosaics with picture mosaics in this catalog. The mosaics were prepared by combining individual gridded pictures (described earlier in the text) so that overlap along the track is largely removed and legending is retained for only the southernmost picture. It is important to note that pictures from each track (pass) are played back to the ground station from the spacecraft recorder in the reverse order to which they were taken. Frame 1 then is the last picture taken, and Frame 12 the first. The mosaic legend for each pass will always indicate a high frame number (11 or 12) for the southern picture. Subsequent catalogs in this series will again contain the digitized computer mapped photo-mosaics.

The basic ESSA 3 and ESSA 5 gridded picture master films are deposited at the National Weather Records Center (NWRC), Environmental Science Services Administration, Federal Building, Asheville, North Carolina 28801. Persons or institutions desiring copies may order them from the NWRC in the form of 35 mm. positive transparencies for projection or 35 mm. duplication negatives from which opaque copies can be made. Pictures should be ordered by date at a cost of \$8.50 per day which includes the digitized computer maps for each day ordered. The digitized computer maps consist of 16 images; eight polar stereographic octants, 6 Mercator segments and two reduced resolution polar hemispheric chips for each day. These digitized computer maps are also available separately on 100 foot reels, at \$8.50 per reel, with each reel containing approximately 22 days of the film chips. All copies will be furnished with sprocket holes, since the necessary film emulsion is available only in this form. It is not possible to furnish copies of individual frames or to provide enlargements or other formats.

Available also from the NWRC, for the cost of reproduction, are reels of microfilmed nephanalysis charts for TIROS thru ESSA 1.

1. Bristor, C. L., Callicott, W. M., and Bradford, R. E.: "Operational Processing of Satellite Cloud Pictures by Computer," Monthly Weather Review, 94(8), August 1966, pp. 515-527.
2. U. S. Department of Commerce, Environmental Science Services Administration, Environmental Data Service, "Catalog of Meteorological Satellite Data - ESSA 3 Television Cloud Photography, Part 2, January 1, 1967 to March 31, 1967." KMRD No. 5.313, Washington, D. C., 1967.

PASS	TRACK	C	S	ALON	MO	DA	HRMNSE	LAT	LAT	SUB-SATELLITE	POINT	PICTURE	LOCATION	LAT	LAT	LAT	LAT		
5722	7	2	W	173E	01	01	005650	77S	77S	66S	54S	41S	27S	14S	ON	12N	26N	39N	52N
5723	8	2	W	144E	01	01	025128	77S	77S	66S	54S	41S	27S	14S	ON	12N	26N	39N	52N
5724	9	2	W	116E	01	01	044609	77S	77S	66S	54S	40S	27S	14S	ON	12N	26N	39N	52N
5725	10	2	W	87E	01	01	064054	77S	76S	66S	53S	40S	27S	13S	ON	13N	26N	40N	53N
5726	11	2	F	58E	01	01	083541	77S	76S	66S	53S	40S	26S	13S	ON	13N	27N	40N	53N
5727	12	2	F	30E	01	01	103023	77S	76S	65S	53S	39S	26S	13S	ON	14N	27N	40N	53N
5728	13	2	F	1E	01	01	122516	77S	76S	65S	52S	39S	25S	12S	1N	14N	28N	41N	54N
5729	1	2	F	28W	01	01	141954	77S	76S	65S	52S	39S	26S	12S	ON	14N	27N	40N	53N
5730	2	2	W	56W	01	01	161417	77S	76S	66S	53S	40S	26S	13S	ON	13N	26N	40N	53N
5731	3	2	F	85W	01	01	180844	77S	76S	66S	54S	40S	27S	14S	ON	12N	26N	39N	52N
5732	4	2	F	114W	01	01	200313	76S	77S	67S	54S	41S	27S	14S	1S	12N	25N	39N	52N
5733	5	2	F	142W	01	01	215745	76S	77S	67S	54S	41S	28S	14S	1S	12N	25N	38N	51N
5734	6	2	W	171W	01	01	235219	76S	77S	67S	55S	41S	28S	15S	1S	11N	25N	38N	51N
5735	7	2	W	160E	01	02	014657	76S	77S	67S	55S	41S	28S	15S	1S	11N	25N	38N	51N
5736	8	2	W	132E	01	02	034139	76S	77S	67S	54S	41S	28S	14S	1S	12N	25N	38N	51N
5737	9	2	W	103E	01	02	053623	76S	77S	67S	54S	41S	28S	14S	1S	12N	25N	39N	52N
5738	10	2	W	74E	01	02	073111	77S	77S	66S	54S	40S	27S	14S	ON	13N	26N	39N	52N
5739	11	2	F	46E	01	02	092601	77S	76S	66S	53S	40S	26S	13S	ON	13N	27N	40N	53N
5740	12	2	F	17E	01	02	112055	77S	76S	65S	52S	39S	26S	12S	ON	14N	27N	41N	54N
5741	1	2	F	12W	01	02	131552	78S	75S	64S	51S	38S	25S	11S	1N	15N	28N	42N	55N
5742	2	2	F	40W	01	02	151032	78S	75S	64S	51S	38S	25S	11S	1N	14N	28N	41N	54N
5743	3	2	F	69W	01	02	170456	77S	76S	65S	52S	39S	26S	12S	ON	14N	27N	40N	53N
5744	4	2	W	98W	01	02	185922	77S	76S	65S	53S	40S	26S	13S	ON	13N	26N	40N	53N
5745	5	2	F	126W	01	02	205352	77S	76S	66S	53S	40S	27S	13S	ON	13N	26N	39N	52N
5746	6	2	F	155W	01	02	224825	77S	76S	66S	54S	40S	27S	14S	ON	12N	26N	39N	52N
5747	7	2	W	176E	01	03	004304	77S	76S	66S	54S	40S	27S	13S	ON	13N	26N	39N	52N
5748	8	2	W	148E	01	03	023743	77S	76S	66S	53S	40S	27S	13S	ON	13N	26N	39N	52N
5749	9	2	W	119E	01	03	043226	77S	76S	66S	53S	40S	27S	13S	ON	13N	26N	39N	52N
5750	10	2	W	90E	01	03	062706	77S	76S	66S	53S	40S	27S	13S	ON	13N	26N	40N	53N
5751	11	2	F	62E	01	03	082155	77S	76S	65S	53S	39S	26S	12S	ON	14N	27N	40N	53N
5752	12	2	F	33E	01	03	101647	77S	76S	65S	52S	39S	25S	12S	1N	14N	28N	41N	54N
5753	13	2	F	4E	01	03	121141	78S	75S	64S	51S	38S	24S	11S	2N	15N	28N	42N	55N
5754	1	2	F	24W	01	03	140620	78S	75S	64S	51S	38S	25S	11S	1N	15N	28N	41N	54N
5755	2	2	W	53W	01	03	160042	77S	76S	65S	52S	39S	26S	12S	ON	14N	27N	40N	53N
5756	3	2	F	82W	01	03	175508	77S	76S	65S	53S	40S	26S	13S	ON	13N	26N	40N	53N
5757	4	2	F	110W	01	03	194936	77S	76S	66S	53S	40S	27S	13S	ON	13N	26N	39N	52N
5758	5	2	F	139W	01	03	214407	77S	77S	66S	54S	41S	27S	14S	ON	12N	26N	39N	52N
5759	6	2	F	168W	01	03	233840	76S	77S	67S	54S	41S	27S	14S	ON	12N	25N	39N	52N
5760	7	2	W	164E	01	04	013317	76S	77S	67S	54S	41S	28S	14S	1S	12N	25N	39N	52N
5761	8	2	W	135E	01	04	032758	76S	77S	67S	54S	41S	27S	14S	ON	12N	26N	39N	52N
5762	9	2	W	106E	01	04	052242	77S	77S	66S	54S	40S	27S	14S	ON	12N	26N	39N	52N
5763	10	2	W	78E	01	04	071729	77S	76S	66S	53S	40S	27S	13S	ON	13N	26N	40N	53N
5764	11	2	F	49E	01	04	091219	77S	76S	65S	53S	39S	26S	13S	ON	14N	27N	40N	53N
5765	12	2	F	20E	01	04	110712	77S	76S	65S	52S	39S	25S	12S	1N	14N	28N	41N	54N
5766	1	2	F	8W	01	04	130208	78S	75S	64S	51S	38S	24S	11S	2N	15N	29N	42N	55N
5767	2	2	F	37W	01	04	145646	78S	75S	64S	51S	38S	25S	11S	1N	15N	28N	41N	54N
5768	3	2	W	66W	01	04	165107	77S	76S	65S	52S	39S	26S	12S	ON	14N	27N	40N	53N
5769	4	2	F	94W	01	04	184531	77S	76S	66S	53S	40S	26S	13S	ON	13N	26N	40N	53N
5770	5	2	F	123W	01	04	203958	77S	76S	66S	53S	40S	27S	13S	ON	12N	26N	39N	52N
5771	6	2	F	152W	01	04	223429	76S	77S	66S	54S	41S	27S	14S	ON	12N	25N	39N	52N
5772	7	2	W	180W	01	05	002902	76S	77S	67S	54S	41S	28S	14S	1S	12N	25N	38N	51N
5773	8	2	W	151E	01	05	022338	76S	77S	67S	54S	41S	28S	14S	1S	12N	25N	38N	51N
5774	9	2	W	122E	01	05	041818	76S	77S	67S	54S	41S	28S	14S	1S	12N	25N	38N	51N
5775	10	2	W	94E	01	05	061300	76S	77S	67S	54S	41S	27S	14S	ON	12N	25N	39N	52N
5776	11	2	F	65E	01	05	080746	77S	77S	66S	54S	40S	27S	14S	ON	12N	26N	39N	52N
5777	12	2	F	36E	01	05	100234	77S	76S	66S	53S	40S	27S	13S	ON	13N	26N	40N	53N
5778	13	2	F	8E	01	05	115726	77S	76S	65S	52S	39S	26S	12S	ON	14N	27N	40N	53N
5779	1	2	F	21W	01	05	135221	77S	75S	64S	52S	38S	25S	11S	1N	15N	28N	41N	54N
5780	2	2	W	50W	01	05	154700	78S	75S	64S	52S	39S	25S	12S	1N	14N	27N	41N	54N
5781	3	2	W	78W	01	05	174123	77S	76S	65S	53S	39S	26S	13S	ON	13N	27N	40N	53N
5782	4	2	F	109W	01	05	193550	78S	78S	68S	54S	41S	28S	14S	1S	12N	26N	39N	52N
5783	5	2	F	136W	01	05	213020	77S	76S	66S	54S	40S	27S	14S	ON	12N	26N	39N	52N
5784	6	2	F	166W	01	05	232454	77S	78S	69S	55S	42S	28S	15S	2S	12N	26N	38N	51N
5785	7	2	W	165E	01	06	011930	77S	78S	68S	55S	42S	28S	15S	2S	12N	25N	38N	52N
5786	8	2	W	137E	01	06	031409	77S	78S	68S	55S	42S	28S	15S	2S	12N	25N	39N	52N
5787	9	2	W	108E	01	06	050851	77S	78S	68S	55S	42S	28S	15S	2S	12N	25N	39N	52N
5788	10	2	W	79E	01	06	070336	78S	78S	67S	54S	41S	28S	14S	1S	13N	26N	39N	52N
5789	11	2	F	52E	01	06	085825	77S	76S	66S	53S	40S	26S	13S	ON	13N	27N	40N	53N
5790	12	2	F	24E	01	06	105316	77S	76S	65S	52S	39S	26S	12S	ON	14N	27N	41N	54N
5791	1	2	F	5W	01	06	124811	78S	75S	64S	51S	38S	25S	11S	1N	15N	28N	41N	54N
5792	2	2	F	34W	01	06	144249	78S	75S	64S	52S	38S	25S	12S	1N	14N	28N	41N	54N
5793	3	2	W	64W	01	06	163710	78S	77S	66S	53S	40S	28S	14S	ON	13N	26N	40N	52N
5794	4	2	F	91W	01	06	183135	77S	76S	66S	53S	40S	27S	13S	ON	13N	26N	39N	52N
5795	5	2	F	120W	01	06	202603	77S	77S	66S	54S	41S	27S	14S	ON	12N	26N	39N	52N
5796	6	2	F	148W	01	06	222034	76S	77S	67S	54S	41S	28S	14S	1S	12N	25N	38N	51N

PASS	TRACK	C	S	ALON	MO	DA	HRMNS	SUB-SATELLITE POINT PICTURE LOCATION										LAT	LAT
								LAT	LAT	LAT	LAT	LAT	LAT	LAT	LAT	LAT	LAT		
5797	7	2	W	177W	01	07	001508	76S	77S	67S	54S	41S	28S	14S	1S	12N	25N	38N	51N
5798	8	2	W	154E	01	07	020945	76S	77S	67S	54S	41S	28S	14S	1S	12N	25N	38N	51N
5799	9	2	W	126E	01	07	040425	76S	77S	67S	54S	41S	28S	14S	1S	12N	25N	38N	51N
5800	10	2	W	97E	01	07	055908	76S	77S	67S	54S	41S	28S	14S	1S	12N	25N	39N	52N
5801	11	2	F	68E	01	07	075355	77S	77S	66S	53S	40S	27S	14S	0N	12N	26N	39N	52N
5802	12	2	F	40E	01	07	094844	77S	76S	66S	53S	40S	26S	13S	0N	13N	26N	40N	53N
5803	13	2	F	11E	01	07	114337	77S	76S	65S	52S	39S	26S	12S	0N	14N	27N	40N	53N
5804	1	2	F	18W	01	07	133833	78S	75S	64S	51S	38S	25S	11S	1N	15N	28N	41N	54N
5805	2	2	F	46W	01	07	153312	78S	75S	64S	52S	39S	25S	12S	1N	14N	27N	41N	54N
5806	3	2	W	75W	01	07	172735	77S	76S	65S	52S	39S	26S	12S	0N	13N	27N	40N	53N
5807	4	2	F	104W	01	07	192202	77S	76S	66S	53S	40S	27S	13S	0N	13N	26N	39N	52N
5808	5	2	F	132W	01	07	211632	77S	76S	66S	53S	40S	27S	13S	0N	12N	26N	39N	52N
5809	6	2	F	161W	01	07	231105	77S	77S	66S	54S	41S	27S	14S	0N	12N	26N	39N	52N
5810	7	2	W	170E	01	08	010541	76S	77S	66S	54S	41S	27S	14S	0N	12N	25N	39N	52N
5811	8	2	W	142E	01	08	030021	76S	77S	66S	54S	41S	27S	14S	0N	12N	26N	39N	52N
5812	9	2	W	113E	01	08	045503	77S	77S	66S	54S	40S	27S	14S	0N	12N	26N	39N	52N
5813	10	2	W	84E	01	08	064948	77S	76S	66S	53S	40S	27S	13S	0N	13N	26N	39N	52N
5814	11	2	F	56E	01	08	084437	77S	76S	65S	53S	40S	26S	13S	0N	13N	27N	40N	53N
5815	12	2	F	27E	01	08	103929	77S	76S	65S	52S	39S	25S	12S	1N	14N	27N	41N	54N
5816	1	2	F	2W	01	08	123423	78S	75S	64S	51S	38S	25S	11S	1N	15N	28N	41N	54N
5817	2	2	F	30W	01	08	142901	78S	75S	64S	52S	38S	25S	12S	1N	14N	28N	41N	54N
5818	3	2	W	59W	01	08	162323	77S	76S	65S	52S	39S	26S	12S	0N	13N	27N	40N	53N
5819	4	2	F	88W	01	08	181748	77S	76S	66S	53S	40S	26S	13S	0N	13N	26N	39N	52N
5820	5	2	F	116W	01	08	201216	77S	76S	66S	54S	40S	27S	14S	0N	12N	26N	39N	52N
5821	6	2	F	146W	01	08	220646	77S	78S	68S	55S	42S	28S	15S	2S	12N	25N	38N	51N
5822	7	2	W	174W	01	09	000126	76S	77S	66S	54S	41S	27S	14S	0N	12N	25N	39N	52N
5823	8	2	W	158E	01	09	015603	76S	77S	66S	54S	41S	27S	14S	0N	12N	25N	39N	52N
5824	9	2	W	129E	01	09	035043	76S	77S	66S	54S	41S	27S	14S	0N	12N	25N	39N	52N
5825	10	2	W	100E	01	09	054526	77S	77S	66S	54S	40S	27S	14S	0N	12N	26N	39N	52N
5826	11	2	W	72E	01	09	074012	77S	76S	66S	53S	40S	27S	13S	0N	13N	26N	39N	52N
5827	12	2	F	43E	01	09	093502	77S	76S	65S	53S	39S	26S	13S	0N	13N	27N	40N	53N
5828	13	2	F	14E	01	09	112955	77S	76S	65S	52S	39S	25S	12S	1N	14N	27N	41N	54N
5829	1	2	F	14W	01	09	132450	78S	75S	64S	51S	38S	24S	11S	2N	15N	28N	42N	55N
5830	2	2	W	43W	01	09	151929	78S	75S	64S	51S	38S	25S	11S	1N	14N	28N	41N	54N
5831	3	2	F	72W	01	09	171353	77S	76S	65S	52S	39S	26S	12S	0N	14N	27N	40N	53N
5832	4	2	F	100W	01	09	190820	77S	76S	65S	53S	39S	26S	13S	0N	13N	27N	40N	53N
5833	5	2	F	129W	01	09	210250	77S	76S	66S	53S	40S	27S	13S	0N	13N	26N	39N	52N
5834	6	2	F	158W	01	09	225723	77S	76S	66S	53S	40S	27S	13S	0N	13N	26N	39N	52N
5835	7	2	W	174E	01	10	005203	77S	76S	66S	53S	40S	27S	13S	0N	13N	26N	39N	52N
5836	8	2	W	145E	01	10	024642	77S	76S	66S	53S	40S	27S	13S	0N	13N	26N	39N	52N
5837	9	2	W	116E	01	10	044125	77S	76S	66S	53S	40S	26S	13S	0N	13N	26N	40N	53N
5838	10	2	W	88E	01	10	063610	77S	76S	65S	53S	39S	26S	13S	0N	13N	27N	40N	53N
5839	11	2	F	59E	01	10	083059	77S	76S	65S	52S	39S	25S	12S	0N	14N	27N	40N	53N
5840	12	2	F	30E	01	10	102551	78S	75S	64S	51S	38S	25S	11S	1N	15N	28N	41N	54N
3359	11	2	F	58E	01	10	120310	7S	5N	18N	32N	45N	58N						
5841	13	2	F	2E	01	10	122045	78S	75S	63S	51S	37S	24S	10S	2N	15N	29N	42N	55N
3360	12	2	F	30E	01	10	135635	8S	4N	18N	31N	44N	57N						
5842	1	2	F	27W	01	10	141524	78S	75S	64S	51S	38S	24S	11S	2N	15N	28N	41N	54N
5843	2	2	W	56W	01	10	160945	78S	75S	64S	52S	39S	25S	12S	1N	14N	27N	41N	53N
5844	3	2	F	84W	01	10	180410	77S	76S	65S	52S	39S	26S	12S	0N	13N	27N	40N	53N
5845	4	2	F	113W	01	10	195838	77S	76S	66S	53S	40S	26S	13S	0N	13N	26N	39N	52N
5846	5	2	F	142W	01	10	215309	77S	76S	66S	53S	40S	27S	13S	0N	13N	26N	39N	52N
5847	6	2	W	170W	01	10	234747	77S	76S	66S	53S	40S	27S	13S	0N	13N	26N	39N	52N
5848	7	2	W	161E	01	11	014224	77S	76S	66S	53S	40S	27S	13S	0N	12N	26N	39N	52N
5849	8	2	W	132E	01	11	033705	77S	76S	66S	53S	40S	27S	13S	0N	13N	26N	39N	52N
5850	9	2	W	104E	01	11	053149	77S	76S	66S	53S	40S	26S	13S	0N	13N	26N	40N	53N
5851	10	2	W	75E	01	11	072636	77S	76S	65S	53S	39S	26S	12S	0N	13N	27N	40N	53N
5852	11	2	F	46E	01	11	092127	77S	75S	65S	52S	39S	25S	12S	1N	14N	27N	41N	54N
5853	12	2	F	18E	01	11	111620	78S	75S	64S	51S	38S	25S	11S	1N	15N	28N	41N	54N
5854	1	2	F	11W	01	11	131116	78S	74S	63S	50S	37S	24S	10S	2N	16N	29N	42N	55N
5855	2	2	F	40W	01	11	150555	78S	74S	63S	51S	37S	24S	11S	2N	15N	29N	42N	55N
5856	3	2	W	68W	01	11	170016	78S	75S	64S	51S	38S	25S	11S	1N	14N	28N	41N	54N
5857	4	2	F	97W	01	11	185441	77S	76S	65S	52S	39S	26S	12S	0N	14N	27N	40N	53N
5858	5	2	F	126W	01	11	204909	77S	76S	65S	53S	39S	26S	13S	0N	13N	26N	40N	53N
5859	6	2	F	154W	01	11	224340	77S	76S	66S	53S	40S	26S	13S	0N	13N	26N	39N	52N
5860	7	2	W	177E	01	12	003814	77S	76S	66S	53S	40S	27S	13S	0N	13N	26N	39N	52N
5861	8	2	W	148E	01	12	023251	77S	76S	66S	53S	40S	27S	13S	0N	13N	26N	39N	52N
5862	9	2	W	120E	01	12	042731	77S	76S	66S	53S	40S	27S	13S	0N	13N	26N	39N	52N
5863	10	2	W	91E	01	12	062214	77S	76S	66S	53S	40S	26S	13S	0N	13N	26N	40N	52N
5864	11	2	F	62E	01	12	081700	77S	76S	65S	53S	39S	26S	13S	0N	13N	27N	40N	53N
5865	12	2	F	34E	01	12	101149	77S	76S	65S	52S	39S	25S	12S	1N	14N	27N	40N	53N
5866	13	2	F	5E	01	12	120641	78S	75S	64S	51S	38S	25S	11S	1N	15N	28N	41N	54N
5867	1	2	F	23W	01	12	140118	78S	75S	64S	52S	38S	25S	12S	1N	14N	27N	40N	53N
5868	2	2	W	52W	01	12	155540	77S	76S	65S	52S	39S	26S	13S	0N	13N	27N	40N	53N
5869	3	2	F	81W	01	12	175005	77S	76S	66S	53S	40S	27S	13S	0N	13N	26N		

PASS	TRACK	C	S	ALON	MO	DA	HRMNSE	LAT	LAT	SUB-SATELLITE	POINT	PICTURE	LOCATION	LAT	LAT
5870	4	2	F	109W	01	12	194432	77S	77S	66S	54S	41S	27S	14S	ON
5871	5	2	F	138W	01	12	213903	76S	77S	67S	54S	41S	28S	14S	1S
5872	6	2	W	168W	01	12	233339	77S	77S	67S	54S	41S	28S	14S	1S
5873	7	2	W	165E	01	13	012816	76S	77S	67S	54S	41S	28S	14S	1S
5874	8	2	W	136E	01	13	032256	76S	77S	67S	54S	41S	28S	14S	1S
5875	9	2	W	107E	01	13	051739	76S	77S	67S	54S	41S	27S	14S	1S
5876	10	2	W	79E	01	13	071225	77S	76S	66S	54S	40S	27S	14S	ON
5877	11	2	F	50E	01	13	090715	77S	76S	66S	53S	40S	26S	13S	ON
5878	12	2	F	21E	01	13	110207	77S	76S	65S	52S	39S	26S	12S	ON
5879	1	2	F	7W	01	13	125703	78S	75S	64S	51S	38S	25S	11S	1N
5880	2	2	F	36W	01	13	145143	78S	75S	64S	52S	38S	25S	12S	1N
5881	3	2	W	65W	01	13	164607	77S	76S	65S	52S	39S	26S	12S	ON
5882	4	2	F	93W	01	13	184034	77S	76S	65S	53S	40S	26S	13S	ON
5883	5	2	F	122W	01	13	203504	77S	76S	66S	53S	40S	27S	13S	ON
5884	6	2	F	151W	01	13	222937	77S	76S	66S	54S	40S	27S	14S	ON
5885	7	2	W	179W	01	14	002413	77S	77S	66S	54S	41S	27S	14S	ON
5886	8	2	W	152E	01	14	021852	77S	77S	66S	54S	41S	27S	14S	ON
5887	9	2	W	123E	01	14	041334	77S	76S	66S	53S	40S	27S	14S	ON
5888	10	2	W	95E	01	14	060819	77S	76S	66S	53S	40S	27S	13S	ON
5889	11	2	F	66E	01	14	080308	77S	76S	65S	53S	39S	26S	13S	ON
5890	12	2	F	37E	01	14	095759	77S	76S	65S	52S	39S	25S	12S	1N
5891	13	2	F	9E	01	14	115254	78S	75S	64S	51S	38S	25S	11S	1N
5892	1	2	F	20W	01	14	134752	78S	74S	63S	50S	37S	24S	10S	2N
5893	2	2	W	49W	01	14	154232	78S	74S	63S	50S	37S	24S	10S	2N
5894	3	2	F	77W	01	14	173654	78S	75S	64S	51S	38S	25S	11S	1N
5895	4	2	F	106W	01	14	193120	77S	75S	64S	52S	39S	25S	12S	ON
5896	5	2	F	135W	01	14	212549	77S	76S	65S	52S	39S	26S	12S	ON
5897	6	2	W	163W	01	14	232021	77S	76S	65S	53S	39S	26S	13S	ON
5898	7	2	W	168E	01	15	011456	77S	76S	65S	53S	40S	26S	13S	ON
5899	8	2	W	139E	01	15	030934	77S	76S	65S	53S	40S	26S	13S	ON
5900	9	2	W	111E	01	15	050415	77S	76S	65S	53S	40S	26S	13S	ON
5901	10	2	W	82E	01	15	065900	77S	76S	65S	52S	39S	26S	12S	ON
5902	11	2	F	53E	01	15	085347	77S	75S	65S	52S	39S	25S	12S	1N
5903	12	2	F	25E	01	15	104838	78S	75S	64S	51S	38S	25S	11S	1N
5904	1	2	F	4W	01	15	124331	78S	75S	63S	52S	38S	25S	12S	2N
5905	2	2	F	33W	01	15	143810	78S	75S	63S	52S	39S	25S	12S	2N
5906	3	2	W	61W	01	15	163232	78S	75S	64S	52S	38S	25S	12S	1N
5907	4	2	F	90W	01	15	182658	77S	76S	65S	52S	39S	26S	12S	ON
5908	5	2	F	119W	01	15	202127	77S	76S	65S	53S	40S	26S	13S	ON
5909	6	2	F	147W	01	15	221559	77S	76S	66S	53S	40S	27S	13S	ON
5910	7	2	W	176W	01	16	001033	77S	76S	66S	53S	40S	27S	13S	ON
5911	8	2	W	155E	01	16	020511	77S	76S	66S	53S	40S	27S	13S	ON
5912	9	2	W	127E	01	16	035952	77S	76S	66S	53S	40S	27S	13S	ON
5913	10	2	W	98E	01	16	055437	77S	76S	65S	53S	40S	26S	13S	ON
5914	11	2	W	69E	01	16	074924	77S	76S	65S	52S	39S	26S	12S	ON
5915	12	2	F	41E	01	16	094415	77S	75S	64S	52S	39S	25S	12S	1N
5916	13	2	F	12E	01	16	113908	78S	75S	64S	51S	38S	24S	11S	2N
5917	1	2	F	17W	01	16	133346	78S	75S	64S	51S	38S	25S	11S	1N
5918	2	2	F	45W	01	16	152808	77S	75S	65S	52S	39S	26S	12S	ON
5919	3	2	F	74W	01	16	172232	77S	76S	65S	53S	40S	26S	13S	ON
5920	4	2	F	103W	01	16	191700	77S	76S	66S	53S	40S	27S	13S	ON
5921	5	2	F	131W	01	16	211131	77S	76S	66S	54S	41S	27S	14S	ON
5922	6	2	F	160W	01	16	230605	76S	77S	66S	54S	41S	27S	14S	1S
5923	7	2	W	171E	01	17	010045	77S	77S	66S	54S	41S	27S	14S	1S
5924	8	2	W	143E	01	17	025525	77S	77S	66S	54S	41S	27S	14S	ON
5925	9	2	W	114E	01	17	045009	77S	76S	66S	53S	40S	27S	14S	ON
5926	10	2	W	85E	01	17	064455	77S	76S	66S	53S	40S	27S	13S	ON
5927	11	2	F	57E	01	17	083945	77S	76S	65S	52S	39S	26S	13S	ON
5928	12	2	F	28E	01	17	103438	77S	75S	64S	52S	39S	25S	12S	1N
5929	1	2	F	1W	01	17	122933	78S	75S	64S	51S	38S	24S	11S	2N
5930	2	2	F	29W	01	17	142413	78S	75S	64S	51S	38S	25S	11S	1N
5931	3	2	W	58W	01	17	161837	78S	75S	64S	52S	39S	25S	12S	ON
5932	4	2	F	87W	01	17	181303	77S	76S	65S	52S	39S	26S	13S	ON
5933	5	2	F	115W	01	17	200733	77S	76S	65S	53S	40S	26S	13S	ON
5934	6	2	F	144W	01	17	220206	77S	76S	66S	53S	40S	27S	13S	ON
5935	7	2	W	173W	01	17	235646	77S	76S	66S	53S	40S	27S	13S	ON
5936	8	2	W	159E	01	18	015125	77S	76S	66S	53S	40S	27S	13S	ON
5937	9	2	W	130E	01	18	034607	77S	76S	65S	53S	40S	26S	13S	ON
5938	10	2	W	101E	01	18	054052	77S	76S	65S	53S	39S	26S	13S	ON
5939	11	2	W	73E	01	18	073540	77S	76S	65S	52S	39S	25S	12S	ON
5940	12	2	F	44E	01	18	093031	78S	75S	64S	51S	38S	25S	11S	1N
5941	13	2	F	15E	01	18	112526	78S	75S	63S	51S	37S	24S	11S	2N
5942	1	2	F	13W	01	18	132005	78S	75S	63S	51S	38S	24S	11S	1N
5943	2	2	F	42W	01	18	151426	78S	75S	64S	52S	39S	25S	12S	1N
5944	3	2	F	71W	01	18	170851	77S	76S	65S	52S	39S	26S	13S	ON

PASS	TRACK	C	S	ALON	MO	DA	HRMNS	SUB-SATELLITE				POINT		PICTURE		LOCATION			
								LAT	LAT	LAT	LAT	LAT	LAT	LAT	LAT	LAT	LAT	LAT	LAT
5945	4	2	F	99W	01	18	190318	77S	76S	65S	53S	40S	26S	13S	ON	13N	26N	39N	52N
5946	5	2	F	128W	01	18	205749	77S	76S	66S	53S	40S	27S	13S	ON	12N	26N	39N	52N
5947	6	2	F	157W	01	18	225223	77S	76S	66S	53S	40S	27S	14S	ON	12N	25N	39N	52N
5948	7	2	W	175E	01	19	004700	77S	76S	66S	54S	40S	27S	14S	ON	12N	25N	39N	52N
5949	8	2	W	146E	01	19	024140	77S	76S	66S	53S	40S	27S	14S	ON	12N	25N	39N	52N
5950	9	2	W	117E	01	19	043624	77S	76S	66S	53S	40S	27S	13S	ON	12N	26N	39N	52N
5951	10	2	W	89E	01	19	063110	77S	76S	65S	53S	40S	26S	13S	ON	13N	26N	39N	52N
5952	11	2	F	60E	01	19	082559	77S	76S	65S	52S	39S	26S	12S	ON	13N	27N	40N	53N
5953	12	2	F	31E	01	19	102052	78S	75S	64S	52S	38S	25S	12S	1N	14N	28N	41N	54N
5954	13	2	F	3E	01	19	121547	78S	75S	64S	51S	38S	24S	11S	2N	15N	28N	42N	55N
5955	1	2	F	26W	01	19	141027	78S	75S	64S	51S	38S	24S	11S	1N	15N	28N	41N	54N
5956	2	2	W	55W	01	19	160448	78S	75S	64S	52S	39S	25S	12S	ON	14N	27N	40N	53N
5957	3	2	F	83W	01	19	175913	77S	76S	65S	52S	39S	26S	13S	ON	13N	26N	39N	52N
5958	4	2	F	112W	01	19	195341	77S	76S	66S	53S	40S	27S	13S	ON	13N	26N	39N	52N
5959	5	2	F	141W	01	19	214811	77S	76S	66S	53S	40S	27S	14S	ON	12N	25N	39N	52N
5960	6	2	W	169W	01	19	234252	77S	76S	66S	53S	40S	27S	13S	ON	12N	26N	39N	52N
5961	7	2	W	162E	01	20	013729	77S	76S	66S	53S	40S	27S	14S	ON	12N	26N	39N	52N
5962	8	2	W	133E	01	20	033209	77S	76S	66S	53S	40S	27S	13S	ON	12N	26N	39N	52N
5963	9	2	W	105E	01	20	052652	77S	76S	66S	53S	40S	27S	13S	ON	13N	26N	39N	52N
5964	10	2	W	76E	01	20	072138	77S	76S	65S	53S	39S	26S	13S	ON	13N	26N	40N	52N
5965	11	2	F	47E	01	20	091628	77S	76S	65S	52S	39S	26S	12S	ON	14N	27N	40N	53N
5966	12	2	F	19E	01	20	111120	78S	75S	64S	51S	38S	25S	11S	1N	14N	28N	41N	54N
5967	1	2	F	10W	01	20	130558	78S	75S	64S	52S	38S	25S	12S	1N	14N	27N	40N	53N
5968	2	2	F	39W	01	20	150021	77S	76S	65S	52S	39S	26S	13S	ON	13N	26N	39N	52N
5969	3	2	F	67W	01	20	165447	77S	76S	66S	53S	40S	27S	13S	ON	12N	26N	39N	52N
5970	4	2	F	96W	01	20	184916	77S	76S	66S	53S	40S	27S	14S	ON	12N	25N	38N	51N
5971	5	2	F	125W	01	20	204348	77S	77S	66S	54S	41S	27S	14S	1S	12N	25N	38N	51N
5972	6	2	F	153W	01	20	223824	76S	77S	66S	54S	41S	28S	14S	1S	12N	25N	38N	51N
5973	7	2	W	178E	01	21	003302	76S	77S	66S	54S	41S	28S	14S	1S	12N	25N	38N	51N
5974	8	2	W	149E	01	21	022744	77S	77S	66S	54S	41S	27S	14S	1S	12N	25N	38N	51N
5975	9	2	W	121E	01	21	042229	77S	76S	66S	53S	40S	27S	14S	ON	12N	26N	39N	52N
5976	10	2	W	92E	01	21	061717	77S	76S	66S	53S	40S	26S	13S	ON	13N	26N	39N	52N
5977	11	2	F	63E	01	21	081208	77S	76S	65S	52S	39S	26S	12S	ON	13N	27N	40N	53N
5978	12	2	F	35E	01	21	100703	78S	75S	64S	52S	38S	25S	12S	1N	14N	28N	41N	54N
5979	13	2	F	6E	01	21	120200	78S	75S	63S	51S	37S	24S	11S	2N	15N	29N	42N	55N
5980	1	2	F	23W	01	21	135641	78S	75S	63S	51S	38S	24S	11S	1N	15N	28N	41N	54N
5981	2	2	W	51W	01	21	155104	78S	75S	64S	51S	38S	25S	12S	1N	14N	27N	40N	53N
5982	3	2	F	80W	01	21	174530	77S	75S	65S	52S	39S	26S	12S	ON	13N	27N	40N	53N
5983	4	2	F	109W	01	21	193959	77S	76S	65S	53S	39S	26S	13S	ON	13N	26N	39N	52N
5984	5	2	F	137W	01	21	213431	77S	76S	65S	53S	40S	26S	13S	ON	13N	26N	39N	52N
5985	6	2	W	166W	01	21	232906	77S	76S	66S	53S	40S	27S	13S	ON	13N	26N	39N	52N
5986	7	2	W	165E	01	22	012345	77S	76S	66S	53S	40S	27S	13S	ON	13N	26N	39N	52N
5987	8	2	W	137E	01	22	031826	77S	76S	66S	53S	40S	26S	13S	ON	13N	26N	39N	52N
5988	9	2	W	108E	01	22	051311	77S	76S	65S	53S	39S	26S	13S	ON	13N	26N	40N	52N
5989	10	2	W	79E	01	22	070759	77S	76S	65S	52S	39S	26S	12S	ON	14N	27N	40N	53N
5990	11	2	W	51E	01	22	090251	78S	75S	64S	51S	38S	25S	11S	1N	14N	28N	41N	54N
5991	12	2	F	22E	01	22	105745	78S	75S	63S	51S	37S	24S	11S	2N	15N	28N	42N	55N
5992	1	2	F	7W	01	22	125243	78S	74S	62S	50S	36S	23S	10S	3N	16N	29N	43N	56N
5993	2	2	F	35W	01	22	144722	78S	74S	63S	50S	37S	23S	10S	2N	16N	29N	42N	55N
5994	3	2	W	64W	01	22	164144	78S	75S	63S	51S	38S	24S	11S	1N	15N	28N	41N	54N
5995	4	2	F	93W	01	22	183609	78S	75S	64S	51S	38S	25S	12S	1N	14N	27N	40N	53N
5996	5	2	F	121W	01	22	203037	78S	75S	64S	52S	39S	25S	12S	ON	14N	27N	40N	53N
5997	6	2	F	150W	01	22	222508	77S	76S	65S	52S	39S	26S	12S	ON	13N	27N	40N	53N
5998	7	2	W	179W	01	23	001941	77S	76S	65S	52S	39S	26S	13S	ON	13N	26N	39N	52N
5999	8	2	W	153E	01	23	021418	77S	76S	65S	53S	39S	26S	13S	ON	13N	26N	39N	52N
6000	9	2	W	124E	01	23	040858	77S	76S	65S	52S	39S	26S	13S	ON	13N	26N	40N	52N
6001	10	2	W	95E	01	23	060342	77S	76S	65S	52S	39S	26S	12S	ON	13N	27N	40N	53N
6002	11	2	W	67E	01	23	075828	77S	75S	65S	52S	39S	25S	12S	ON	14N	27N	40N	53N
6003	12	2	F	35E	01	23	095317	77S	78S	65S	53S	39S	26S	13S	1N	14N	27N	40N	53N
6004	13	2	F	6E	01	23	114810	78S	76S	64S	52S	39S	26S	12S	1N	14N	27N	41N	54N
6005	1	2	F	23W	01	23	134305	78S	75S	64S	51S	38S	25S	11S	2N	15N	29N	42N	55N
6006	2	2	W	52W	01	23	153744	78S	75S	64S	51S	38S	25S	12S	1N	14N	28N	41N	54N
6007	3	2	F	80W	01	23	173205	78S	76S	64S	52S	39S	26S	13S	1N	14N	26N	40N	53N
6008	4	2	F	109W	01	23	192630	78S	76S	65S	52S	40S	26S	13S	ON	13N	26N	39N	52N
6009	5	2	F	137W	01	23	212058	77S	76S	66S	53S	40S	27S	13S	ON	13N	26N	39N	52N
6010	6	2	F	165W	01	23	231529	77S	76S	66S	53S	40S	27S	14S	1N	12N	26N	38N	51N
6011	7	2	W	166E	01	24	011002	77S	77S	66S	54S	41S	27S	14S	1S	12N	25N	38N	51N
6012	8	2	W	137E	01	24	030440	77S	77S	66S	54S	41S	28S	14S	1S	13N	25N	38N	51N
6013	9	2	W	108E	01	24	045920	77S	77S	66S	54S	41S	28S	14S	1S	12N	26N	39N	52N
6014	10	2	W	80E	01	24	065402	77S	77S	66S	53S	40S	27S	14S	1S	13N	26N	39N	52N
6015	11	2	F	51E	01	24	084849	77S	76S	66S	53S	40S	27S	14S	ON	13N	26N	39N	52N
6016	12	2	F	22E	01	24	104339	77S	76S	65S	52S	39S	26S	13S	1N	14N	27N	40N	53N
6017	1	2	F	7W	01	24	123831	78S	75S	64S	51S	38S	24S	11S	2N	15N	28N	41N	54N
6018	2	2	F	32W	01	24	143309	78S	75S	64S	51S	38S	25S	11S	1N	14N	28N	41N	54N
6019	3	2	W	61W	01	24	162732	78S	75S	64S	52S	39S	25S	12S	ON	14N	27N	40N	53N

PASS	TRACK	C	S	ALON	MO	DA	HRMNSE	SUB-SATELLITE			POINT		PICTURE		LOCATION				
								LAT	LAT	LAT	LAT	LAT	LAT	LAT	LAT	LAT	LAT	LAT	
6020	4	2	F	89W	01	24	182158	77S	76S	65S	52S	39S	26S	13S	ON	13N	26N	39N	52N
6021	5	2	F	118W	01	24	201626	77S	76S	65S	53S	40S	27S	13S	ON	12N	26N	39N	52N
6022	6	2	F	147W	01	24	221058	77S	76S	66S	53S	40S	27S	14S	ON	12N	25N	39N	52N
6023	7	2	W	175W	01	25	000523	77S	77S	66S	54S	41S	28S	14S	1S	12N	25N	38N	51N
6024	8	2	W	156E	01	25	020011	77S	76S	66S	53S	40S	27S	14S	ON	12N	25N	38N	51N
6025	9	2	W	127E	01	25	035453	77S	76S	66S	53S	40S	27S	13S	ON	12N	26N	39N	52N
6026	10	2	W	99E	01	25	054938	77S	76S	66S	53S	40S	26S	13S	ON	13N	26N	39N	52N
6027	11	2	W	70E	01	25	074426	77S	76S	65S	52S	39S	26S	13S	ON	13N	26N	40N	53N
6028	12	2	F	41E	01	25	093917	77S	75S	64S	52S	39S	25S	12S	ON	14N	27N	40N	53N
6029	13	2	F	13E	01	25	113411	78S	75S	64S	51S	38S	25S	11S	1N	15N	28N	41N	54N
6030	1	2	F	16W	01	25	132908	78S	74S	63S	50S	37S	24S	10S	2N	16N	29N	42N	55N
6031	2	2	W	45W	01	25	152347	78S	74S	63S	50S	37S	24S	11S	2N	15N	28N	41N	54N
6032	3	2	F	73W	01	25	171809	78S	75S	64S	51S	38S	25S	11S	1N	14N	27N	41N	53N
6033	4	2	F	102W	01	25	191233	78S	75S	64S	52S	39S	26S	12S	ON	13N	27N	40N	53N
6034	5	2	F	131W	01	25	210701	77S	76S	65S	52S	39S	26S	13S	ON	13N	26N	39N	52N
6035	6	2	F	159W	01	25	230132	77S	76S	65S	53S	40S	26S	13S	ON	13N	26N	39N	52N
6036	7	2	W	172E	01	26	005606	77S	76S	66S	53S	40S	27S	13S	ON	12N	26N	39N	52N
6037	8	2	W	143E	01	26	025043	77S	76S	66S	53S	40S	27S	13S	ON	12N	26N	39N	52N
6038	9	2	W	115E	01	26	044525	77S	76S	65S	53S	40S	26S	13S	ON	13N	26N	39N	52N
6039	10	2	W	86E	01	26	064006	77S	76S	65S	53S	40S	26S	13S	ON	13N	26N	39N	52N
6040	11	2	F	57E	01	26	083452	77S	76S	65S	52S	39S	26S	13S	ON	13N	26N	40N	53N
6041	12	2	F	29E	01	26	102941	77S	75S	65S	52S	39S	25S	12S	ON	14N	27N	40N	53N
6042	1	2	F	3W	01	26	122434	78S	76S	65S	52S	39S	26S	13S	1N	14N	27N	40N	53N
6043	2	2	F	32W	01	26	141912	78S	76S	65S	52S	39S	26S	13S	ON	13N	26N	39N	52N
6044	3	2	F	60W	01	26	161334	77S	76S	66S	53S	40S	27S	14S	1S	12N	26N	39N	51N
6045	4	2	W	89W	01	26	180800	77S	77S	66S	54S	41S	28S	14S	1S	12N	25N	38N	51N
6046	5	2	F	117W	01	26	200229	77S	77S	67S	54S	41S	28S	15S	2S	11N	25N	38N	51N
6047	6	2	F	146W	01	26	215701	77S	77S	67S	55S	42S	28S	15S	2S	11N	24N	37N	50N
6048	7	2	W	172W	01	26	235140	77S	76S	66S	54S	40S	27S	14S	1S	12N	25N	38N	51N
6049	8	2	W	159E	01	27	014618	77S	76S	66S	54S	40S	27S	14S	1S	12N	25N	38N	51N
6050	9	2	W	131E	01	27	034059	77S	76S	66S	53S	40S	27S	14S	ON	12N	25N	38N	51N
6051	10	2	W	102E	01	27	053543	77S	76S	66S	53S	40S	27S	13S	ON	12N	26N	39N	52N
6052	11	2	W	73E	01	27	073030	77S	76S	65S	53S	40S	26S	13S	ON	13N	26N	39N	52N
6053	12	2	F	42E	01	27	092521	78S	77S	66S	53S	40S	27S	14S	1S	13N	26N	39N	52N
6054	13	2	F	16E	01	27	112014	78S	75S	64S	51S	38S	25S	12S	1N	14N	27N	41N	54N
6055	1	2	F	13W	01	27	131510	78S	74S	63S	51S	37S	24S	11S	2N	15N	28N	42N	54N
6056	2	2	W	41W	01	27	150950	78S	74S	63S	51S	38S	24S	11S	1N	15N	28N	41N	54N
6057	3	2	F	73W	01	27	170412	78S	76S	65S	53S	39S	27S	13S	ON	13N	26N	39N	52N
6058	4	2	F	102W	01	27	165838	78S	77S	66S	53S	40S	28S	14S	1N	12N	26N	39N	52N
6059	5	2	F	130W	01	27	205307	78S	77S	67S	54S	41S	28S	14S	1N	12N	25N	38N	51N
6060	6	2	F	158W	01	27	224739	77S	77S	67S	54S	41S	28S	14S	2S	12N	25N	38N	51N
6061	7	2	W	173E	01	28	004634	77S	77S	67S	54S	41S	28S	15S	2S	12N	25N	38N	51N
6062	8	2	W	144E	01	28	023652	77S	77S	67S	54S	41S	28S	15S	2S	12N	25N	38N	51N
6063	9	2	W	116E	01	28	043133	78S	77S	67S	54S	41S	28S	15S	2S	12N	25N	38N	51N
6064	10	2	W	87E	01	28	062617	78S	77S	67S	54S	41S	28S	14S	1S	12N	25N	38N	52N
6065	11	2	F	58E	01	28	082104	78S	77S	67S	54S	40S	27S	14S	1S	12N	26N	39N	52N
6066	12	2	F	32E	01	28	101555	78S	75S	64S	52S	39S	25S	12S	1N	14N	27N	40N	53N
6067	13	2	F	3E	01	28	121048	78S	75S	64S	51S	38S	24S	11S	1N	15N	28N	41N	54N
6068	1	2	F	25W	01	28	140526	78S	75S	64S	51S	38S	25S	12S	1N	14N	27N	40N	53N
6069	2	2	W	54W	01	28	155949	78S	75S	65S	52S	39S	26S	12S	ON	13N	27N	40N	53N
6070	3	2	F	83W	01	28	175415	77S	76S	65S	53S	39S	26S	13S	ON	13N	26N	39N	52N
6071	4	2	F	111W	01	28	194843	77S	76S	66S	53S	40S	27S	13S	ON	12N	25N	39N	52N
6072	5	2	F	140W	01	28	214315	77S	76S	66S	53S	40S	27S	14S	ON	12N	25N	38N	51N
6073	6	2	F	169W	01	28	233750	77S	76S	66S	54S	41S	27S	14S	1S	12N	25N	38N	51N
6074	7	2	W	163E	01	29	013228	77S	76S	66S	54S	41S	27S	14S	1S	12N	25N	38N	51N
6075	8	2	W	134E	01	29	032709	77S	76S	66S	53S	40S	27S	14S	ON	12N	25N	38N	51N
6076	9	2	W	105E	01	29	052153	77S	76S	66S	53S	40S	27S	13S	ON	12N	25N	39N	52N
6077	10	2	W	77E	01	29	071641	77S	76S	65S	53S	40S	26S	13S	ON	13N	26N	39N	52N
6078	11	2	F	48E	01	29	091131	77S	76S	65S	52S	39S	26S	12S	ON	13N	27N	40N	53N
6079	12	2	F	19E	01	29	110624	78S	75S	64S	51S	38S	25S	12S	1N	14N	27N	41N	53N
6080	1	2	F	9W	01	29	130121	78S	74S	63S	50S	37S	24S	11S	2N	15N	28N	42N	54N
3601	12	1	F	27E	01	29	141309	8S	4N	18N	31N	44N	57N						
6081	2	2	F	38W	01	29	145600	78S	74S	63S	51S	38S	24S	11S	1N	15N	28N	41N	54N
6082	3	2	W	67W	01	29	165021	78S	75S	64S	52S	38S	25S	12S	ON	14N	27N	40N	53N
6083	4	2	F	95W	01	29	184446	77S	76S	65S	52S	39S	26S	13S	ON	13N	26N	39N	52N
6084	5	2	F	124W	01	29	203914	77S	76S	65S	53S	40S	26S	13S	ON	13N	26N	39N	52N
6085	6	2	F	153W	01	29	223344	77S	76S	66S	53S	40S	27S	14S	ON	12N	25N	38N	51N
6086	7	2	W	179E	01	30	002822	77S	76S	66S	53S	40S	27S	14S	ON	12N	25N	39N	51N
6087	8	2	W	150E	01	30	022259	77S	76S	66S	53S	40S	27S	14S	ON	12N	25N	38N	51N
6088	9	2	W	121E	01	30	041739	77S	76S	66S	53S	40S	27S	14S	ON	12N	25N	39N	52N
6089	10	2	W	93E	01	30	061222	77S	76S	66S	53S	40S	27S	13S	ON	12N	26N	39N	52N
6090	11	2	F	64E	01	30	080709	77S	76S	65S	53S	39S	26S	13S	ON	13N	26N	39N	52N
6091	12	2	F	35E	01	30	100158	77S	75S	65S	52S	39S	26S	12S	ON	13N	27N	40N	53N
6092	13	2	F	7E	01	30	115650	78S	75S	64S	51S	38S	25S	12S	1N	14N	27N	41N	54N
6093	1	2	F	22W	01	30	135129	78S	75S	64S	51S	38S	25S	12S	ON	14N	27N	40N	53N

PASS	TRACK	C	S	ALON	MO	DA	HR	MN	SEC	SUB-SATELLITE					POINT PICTURE LOCATION					LOCATION				
										LAT	LAT	LAT	LAT	LAT	LAT	LAT	LAT	LAT	LAT	LAT	LAT	LAT	LAT	LAT
6094	2	2	W	51W	01	30	154553	77S	76S	65S	52S	39S	26S	13S	01N	13N	26N	39N	52N					
6095	3	2	F	79W	01	30	174019	77S	76S	65S	53S	40S	27S	13S	01N	12N	26N	39N	52N					
6096	4	2	F	108W	01	30	193449	77S	76S	66S	53S	40S	27S	14S	01N	12N	25N	38N	51N					
6097	5	2	F	137W	01	30	212922	77S	76S	66S	54S	40S	27S	14S	1S	12N	25N	38N	51N					
6098	6	2	F	165W	01	30	232358	77S	76S	66S	54S	41S	27S	14S	1S	12N	25N	38N	51N					
6099	7	2	W	166E	01	31	011837	77S	76S	66S	54S	41S	27S	14S	1S	12N	25N	38N	51N					
6100	8	2	W	137E	01	31	031319	77S	76S	66S	53S	40S	27S	14S	01N	12N	25N	38N	51N					
6101	9	2	W	109E	01	31	050804	77S	76S	66S	53S	40S	27S	13S	01N	12N	26N	39N	52N					
6102	10	2	W	80E	01	31	070500	78S	71S	59S	46S	33S	20S	6S	6N	19N	33N	46N	58N					
6103	11	2	F	47E	01	31	090411	73S	60S	47S	33S	20S	7S	6N	19N	32N	55N	58N						
6104	12	2	F	21E	01	31	105906	71S	59S	46S	32S	19S	6S	7N	20N	33N	46N	59N						
6105	1	2	F	6W	01	31	124943	78S	69S	57S	44S	31S	17S	4S	8N	22N	35N	48N	61N					
6106	2	2	F	35W	01	31	144423	78S	69S	57S	44S	31S	18S	4S	8N	21N	34N	47N	60N					
6107	3	2	W	63W	01	31	163846	78S	70S	58S	45S	32S	18S	5S	7N	21N	34N	47N						
6108	4	2	F	92W	01	31	183311	78S	70S	58S	45S	32S	19S	6S	7N	20N	33N	46N	59N					
6109	5	2	F	121W	01	31	202740	78S	71S	59S	46S	33S	19S	6S	6N	19N	33N	46N	58N					
6110	6	2	F	149W	01	31	222212	78S	71S	59S	46S	33S	20S	6S	6N	19N	32N	45N	58N					
6111	7	2	W	178W	02	01	001649	78S	71S	59S	46S	33S	20S	7S	6N	19N	32N	45N	58N					
6112	8	2	W	153E	02	01	021128	78S	71S	59S	46S	33S	20S	7S	6N	19N	32N	45N	58N					
6113	9	2	W	125E	02	01	040609	78S	71S	59S	46S	33S	20S	6S	6N	19N	32N	46N	58N					
6114	10	2	W	96E	02	01	060054	78S	71S	59S	46S	33S	19S	6S	6N	20N	33N	46N	59N					
6115	11	2	F	67E	02	01	075541	78S	70S	58S	45S	32S	19S	6S	7N	20N	33N	46N	59N					
6116	12	2	F	39E	02	01	095032	78S	70S	58S	45S	32S	18S	5S	7N	21N	34N	47N	60N					
6117	13	2	F	10E	02	01	114525	78S	69S	57S	44S	31S	17S	4S	8N	22N	35N	48N	60N					
6118	1	2	F	19W	02	01	134022																	

PASS	TRACK	C	S	ALON	MO	OA	HRMNSZ	SUB-SATELLITE					POINT		PICTURE		LOCATION			
								LAT	LAT	LAT	LAT	LAT	LAT	LAT	LAT	LAT	LAT	LAT	LAT	LAT
6168	1	2	F	12W	02	05	131230	78S	69S	57S	44S	31S	17S	4S	8N	22N	35N	48N	61N	
6169	2	2	W	40W	02	05	150708	78S	69S	57S	44S	31S	18S	4S	8N	21N	34N	47N	61N	
6170	3	2	W	69W	02	05	170130	78S	70S	58S	45S	32S	19S	5S	7N	20N	33N	46N		
6171	4	2	F	98W	02	05	185554	78S	70S	58S	46S	32S	19S	6S	6N	20N	33N	46N	58N	
6172	5	2	F	126W	02	05	205022	78S	71S	59S	46S	33S	20S	6S	6N	19N	32N	45N	58N	
6173	6	2	F	155W	02	05	224453	78S	71S	59S	47S	33S	20S	7S	5N	19N	32N	45N	58N	
6174	7	2	W	176E	02	06	003932	78S	71S	59S	46S	33S	20S	7S	6N	19N	32N	45N	58N	
6175	8	2	W	148E	02	06	023411	78S	71S	59S	46S	33S	20S	7S	6N	19N	32N	45N	58N	
6176	9	2	W	119E	02	06	042852	78S	71S	59S	46S	33S	20S	7S	6N	19N	32N	45N	58N	
6177	10	2	W	90E	02	06	062336	78S	71S	59S	46S	33S	20S	6S	6N	19N	33N	46N	58N	
6178	11	2	F	62E	02	06	081824	78S	70S	58S	46S	32S	19S	6S	7N	20N	33N	46N	59N	
6179	12	2	F	33E	02	06	101315	78S	70S	58S	45S	32S	18S	5S	7N	20N	34N	47N	59N	
6180	13	2	F	4E	02	06	120808	78S	69S	57S	44S	31S	18S	5S	7N	21N	34N	47N	59N	
6181	1	2	F	24W	02	06	140246	78S	69S	57S	44S	31S	18S	5S	7N	21N	34N	47N	59N	
6182	2	2	W	53W	02	06	155709	78S	70S	58S	45S	32S	19S	6S	7N	20N	33N	46N	59N	
6183	3	2	F	82W	02	06	175135	78S	71S	59S	46S	33S	19S	6S	6N	19N	32N	45N	58N	
6184	4	2	F	110W	02	06	194603	78S	71S	59S	46S	33S	20S	7S	6N	19N	32N	45N	58N	
6185	5	2	F	139W	02	06	214035	78S	71S	60S	47S	34S	20S	7S	5N	19N	32N	45N	57N	
6186	6	2	W	168W	02	06	233516	78S	71S	59S	47S	33S	20S	7S	5N	19N	32N	45N	58N	
6187	7	2	W	164E	02	07	012955	78S	71S	59S	47S	33S	20S	7S	5N	19N	32N	45N	58N	
6188	8	2	W	135E	02	07	032437	78S	71S	59S	46S	33S	20S	7S	6N	19N	32N	45N	58N	
6189	9	2	W	106E	02	07	051923	78S	71S	59S	46S	33S	20S	6S	6N	19N	33N	46N	58N	
6190	10	2	F	78E	02	07	071411	78S	70S	58S	46S	32S	19S	6S	7N	20N	33N	46N	59N	
6191	11	2	F	49E	02	07	090903	78S	70S	58S	45S	32S	18S	5S	7N	21N	34N	47N	60N	
6192	12	2	F	20E	02	07	110357	78S	69S	57S	44S	31S	18S	4S	8N	21N	35N	48N	60N	
6193	1	2	F	8W	02	07	125855	78S	68S	56S	43S	30S	17S	3S	9N	22N	36N	49N	61N	
3715	12	1	F	30E	02	07	140413	5S	8N	21N	34N	48N	60N							
6194	2	2	F	37W	02	07	145334	78S	68S	56S	43S	30S	17S	4S	9N	22N	35N	48N	61N	
6195	3	2	W	66W	02	07	164757	78S	69S	57S	44S	31S	18S	4S	8N	21N	34N	47N		
6196	4	2	F	94W	02	07	184222	78S	70S	58S	45S	32S	18S	5S	7N	20N	34N	47N	59N	
6197	5	2	F	123W	02	07	203651	78S	70S	58S	45S	32S	19S	6S	7N	20N	33N	46N	59N	
6198	6	2	F	152W	02	07	223123	78S	70S	58S	46S	32S	19S	6S	6N	20N	33N	46N	59N	
6199	7	2	W	180W	02	08	002559	78S	71S	59S	46S	33S	19S	6S	6N	20N	33N	46N	59N	
6200	8	2	W	151E	02	08	022038	78S	70S	58S	46S	32S	19S	6S	6N	20N	33N	46N	59N	
6201	9	2	W	122E	02	08	041519	78S	70S	58S	46S	32S	19S	6S	7N	20N	33N	46N	59N	
6202	10	2	W	94E	02	08	061003	78S	70S	58S	45S	32S	19S	5S	7N	20N	33N	46N	59N	
6203	11	2	F	65E	02	08	080450	78S	70S	58S	45S	32S	18S	5S	7N	21N	34N	47N	60N	
6204	12	2	F	36E	02	08	095941	78S	69S	57S	44S	31S	18S	4S	8N	21N	34N	47N	60N	
6205	13	2	F	8E	02	08	115434	78S	69S	56S	43S	30S	17S	4S	9N	22N	35N	48N	61N	
6206	1	2	F	21W	02	08	134931	77S	68S	55S	43S	29S	16S	3S	10N	23N	36N	49N	62N	
6207	2	2	W	50W	02	08	154408	77S	68S	56S	43S	30S	16S	3S	9N	22N	35N	48N	62N	
6208	3	2	F	78W	02	08	173828	78S	69S	57S	44S	31S	17S	4S	8N	21N	34N	47N	60N	
6209	4	2	F	107W	02	08	193252	78S	69S	57S	44S	31S	18S	5S	7N	21N	34N	47N	59N	
6210	5	2	F	136W	02	08	212719	78S	70S	58S	45S	32S	19S	5S	7N	20N	33N	46N	59N	
6211	6	2	F	164W	02	08	232149	78S	70S	58S	45S	32S	19S	6S	6N	20N	33N	46N	59N	
6212	7	2	W	167E	02	09	011622	78S	71S	59S	46S	33S	19S	6S	6N	19N	33N	46N	58N	
6213	8	2	W	138E	02	09	031058	78S	71S	59S	46S	33S	20S	6S	6N	19N	33N	46N	58N	
6214	9	2	W	110E	02	09	050537	78S	71S	59S	46S	33S	19S	6S	6N	19N	33N	46N	58N	
6215	10	2	W	81E	02	09	070019	78S	71S	59S	46S	33S	19S	6S	6N	20N	33N	46N	59N	
6216	11	2	F	52E	02	09	085504	78S	70S	58S	45S	32S	19S	6S	7N	20N	33N	46N	59N	
6217	12	2	F	24E	02	09	104953	78S	70S	58S	45S	32S	18S	5S	7N	21N	34N	47N	59N	
6218	1	2	F	5W	02	09	124444	78S	69S	57S	44S	31S	18S	4S	8N	21N	34N	47N	60N	
6219	2	2	F	34W	02	09	143920	78S	69S	57S	45S	31S	18S	5S	7N	21N	34N	47N	59N	
6220	3	2	W	62W	02	09	163342	78S	70S	58S	45S	32S	19S	6S	7N	20N	33N	46N	59N	
6221	4	2	F	91W	02	09	182806	78S	71S	59S	46S	33S	20S	6S	6N	19N	32N	45N	58N	
6222	5	2	F	120W	02	09	202234	78S	71S	59S	47S	34S	20S	7S	5N	19N	32N	45N	57N	
6223	6	2	F	148W	02	09	221705	78S	72S	60S	47S	34S	21S	7S	5N	18N	31N	44N	57N	
6224	7	2	F	177W	02	10	001138	78S	72S	60S	47S	34S	21S	8S	5N	18N	31N	44N	57N	
6225	8	2	W	154E	02	10	020615	78S	72S	60S	47S	34S	21S	8S	5N	18N	31N	44N	57N	
6226	9	2	W	126E	02	10	040055	78S	72S	60S	47S	34S	21S	8S	5N	18N	31N	44N	57N	
6227	10	2	W	97E	02	10	055538	78S	72S	60S	47S	34S	21S	7S	5N	18N	31N	44N	57N	
6228	11	2	F	68E	02	10	075024	78S	71S	59S	47S	34S	20S	7S	5N	19N	32N	45N	58N	
6229	12	2	F	38E	02	10	094513	79S	72S	60S	47S	34S	21S	8S	5N	19N	31N	45N	57N	
6230	13	2	F	10E	02	10	114426	79S	72S	59S	47S	34S	20S	7S	6N	19N	33N	46N	58N	
6231	1	2	F	18W	02	10	133501	78S	70S	57S	45S	31S	18S	5S	8N	21N	34N	47N	60N	
6232	2	2	W	46W	02	10	152940	78S	70S	58S	45S	32S	18S	5S	7N	20N	33N	46N	60N	
6233	3	2	F	75W	02	10	172403	78S	70S	58S	46S	32S	19S	6S	6N	20N	33N	46N	58N	
6234	4	2	F	110W	02	10	191829	72S	60S	48S	34S	21S	8S	5N	18N	31N	44N	57N		
6235	5	2	F	132W	02	10	211259	78S	71S	59S	47S	33S	20S	7S	5N	19N	32N	45N	57N	
6236	6	2	F	161W	02	10	230731	78S	72S	60S	47S	34S	21S	7S	5N	18N	31N	44N	57N	
6237	7	2	W	170E	02	11	010207	78S	72S	60S	47S	34S	21S	7S	5N	18N	31N	44N	57N	
6238	8	2	W	142E	02	11	025645	78S	72S	60S	47S	34S	21S	7S	5N	18N	31N	44N	57N	
6239	9	2	W	113E	02	11	045127	78S	72S	60S	47S	34S	21S	7S	5N	18N	32N	45N	57N	
6240	10	2	W	84E	02	11	064612	78S	71S	59S	47S	33S	20S	7S	5N	19N	32N	45N	58N	
6241	11	2	F	56E	02	11	084059	78S	71S	59S	46S	33S	20S	6S	6N	19N	32N	45N	58N	

PASS	TRACK	C	S	ALON	MO	DA	HRMNS	SUB-SATELLITE				POINT		PICTURE		LOCATION		LAT	LAT
								LAT	LAT	LAT	LAT	LAT	LAT	LAT	LAT	LAT	LAT	LAT	LAT
6242	12	2	F	27E	02	11	103550	78S	70S	58S	46S	32S	19S	6S	7N	20N	33N	46N	59N
6243	1	2	F	2W	02	11	123044	78S	70S	58S	45S	32S	18S	5S	7N	21N	34N	47N	60N
6244	2	2	F	30W	02	11	142523	78S	70S	58S	45S	32S	19S	5S	7N	20N	33N	46N	59N
6245	3	2	W	59W	02	11	161946	78S	70S	59S	46S	33S	19S	6S	6N	19N	33N	46N	59N
6246	4	2	F	88W	02	11	181412	78S	71S	59S	46S	33S	20S	7S	6N	19N	32N	45N	58N
6247	5	2	F	116W	02	11	200841	78S	71S	60S	47S	34S	20S	7S	5N	18N	31N	45N	57N
6248	6	2	F	145W	02	11	220314	78S	72S	60S	47S	34S	21S	7S	5N	18N	31N	44N	57N
6249	7	2	W	174W	02	11	235749	78S	72S	60S	47S	34S	21S	8S	5N	18N	31N	44N	57N
6250	8	2	W	158E	02	12	015228	78S	72S	60S	47S	34S	21S	8S	5N	18N	31N	44N	57N
6251	9	2	W	129E	02	12	034710	78S	72S	60S	47S	34S	21S	7S	5N	18N	31N	44N	57N
6252	10	2	W	100E	02	12	054154	78S	71S	60S	47S	34S	20S	7S	5N	18N	32N	45N	58N
6253	11	2	W	72E	02	12	073642	78S	71S	59S	46S	33S	20S	7S	6N	19N	32N	45N	58N
6254	12	2	F	43E	02	12	093133	78S	71S	59S	46S	33S	19S	6S	6N	20N	33N	46N	59N
6255	13	2	F	14E	02	12	112627	78S	70S	58S	45S	32S	18S	5S	7N	20N	34N	47N	59N
6256	1	2	F	14W	02	12	132105	78S	70S	58S	45S	32S	19S	6S	7N	20N	33N	46N	59N
6257	2	2	W	43W	02	12	151526	78S	71S	59S	46S	33S	20S	6S	6N	19N	32N	45N	59N
6258	3	2	F	72W	02	12	170951	78S	71S	59S	47S	34S	20S	7S	5N	18N	32N	45N	57N
6259	4	2	F	100W	02	12	190419	78S	72S	60S	47S	34S	21S	8S	5N	18N	31N	44N	57N
6260	5	2	F	129W	02	12	205849	78S	72S	60S	48S	35S	21S	8S	4N	17N	31N	44N	56N
6261	6	2	F	158W	02	12	225323	78S	72S	61S	48S	35S	22S	8S	4N	17N	30N	44N	56N
6262	7	2	W	174E	02	13	004801	78S	72S	61S	48S	35S	22S	8S	4N	17N	30N	44N	56N
6263	8	2	W	145E	02	13	024241	78S	72S	61S	48S	35S	21S	8S	4N	17N	31N	44N	56N
6264	9	2	W	116E	02	13	043724	78S	72S	60S	48S	34S	21S	8S	4N	18N	31N	44N	57N
6265	10	2	W	88E	02	13	063209	78S	72S	60S	47S	34S	21S	8S	5N	18N	31N	44N	57N
6266	11	2	F	59E	02	13	082658	78S	71S	60S	47S	34S	20S	7S	5N	19N	32N	45N	58N
6267	12	2	F	30E	02	13	102150	78S	71S	59S	46S	33S	20S	6S	6N	19N	32N	46N	58N
6268	13	2	F	2E	02	13	121645	78S	70S	58S	45S	32S	19S	5S	7N	20N	33N	46N	59N
6269	1	2	F	27W	02	13	141124	78S	70S	58S	45S	32S	19S	6S	6N	20N	33N	46N	58N
6270	2	2	W	56W	02	13	160548	78S	71S	59S	46S	33S	20S	7S	6N	19N	32N	45N	58N
6271	3	2	F	84W	02	13	180015	78S	71S	59S	47S	34S	20S	7S	5N	18N	32N	45N	57N
6272	4	2	F	113W	02	13	195445	78S	72S	60S	47S	34S	21S	8S	5N	18N	31N	44N	57N
6273	5	2	F	142W	02	13	214918	78S	72S	60S	47S	34S	21S	8S	4N	18N	31N	44N	57N
6274	6	2	W	170W	02	13	234354	78S	72S	60S	47S	34S	21S	8S	4N	18N	31N	44N	57N
6275	7	2	W	161E	02	14	013833	78S	72S	60S	47S	34S	21S	8S	4N	18N	31N	44N	57N
6276	8	2	W	132E	02	14	033315	78S	72S	60S	47S	34S	21S	8S	5N	18N	31N	44N	57N
6277	9	2	W	104E	02	14	052800	78S	72S	60S	47S	34S	21S	7S	5N	18N	31N	44N	57N
6278	10	2	W	75E	02	14	072249	78S	71S	59S	46S	33S	20S	7S	6N	19N	32N	45N	58N
6279	11	2	F	46E	02	14	091740	78S	71S	59S	46S	33S	19S	6S	6N	19N	33N	46N	58N
6280	12	2	F	18E	02	14	111235	78S	70S	58S	45S	32S	19S	5S	7N	20N	34N	47N	59N
6281	1	2	F	11W	02	14	130713	78S	70S	58S	45S	32S	19S	6S	7N	20N	33N	46N	59N
6282	12	1	F	22E	02	14	143337	7S	6N	19N	32N	46N	59N						
6283	2	2	F	40W	02	14	150135	78S	71S	59S	46S	33S	20S	7S	6N	19N	32N	45N	58N
6284	3	2	W	68W	02	14	165559	78S	71S	60S	47S	34S	21S	7S	5N	18N	31N	44N	57N
6285	4	2	F	97W	02	14	185027	78S	72S	60S	47S	34S	21S	8S	4N	18N	31N	44N	57N
6286	5	2	F	126W	02	14	204458	78S	72S	60S	48S	35S	21S	8S	4N	17N	31N	44N	56N
6287	6	2	F	154W	02	14	223931	78S	72S	61S	48S	35S	22S	8S	4N	17N	30N	43N	56N
6288	7	2	W	177E	02	15	003404	78S	73S	61S	48S	35S	22S	9S	4N	17N	30N	43N	56N
6289	8	2	W	148E	02	15	022844	78S	73S	61S	48S	35S	22S	9S	4N	17N	30N	43N	56N
6290	9	2	W	120E	02	15	042326	78S	72S	61S	48S	35S	22S	8S	4N	17N	30N	43N	56N
6291	10	2	W	91E	02	15	061812	78S	72S	60S	48S	35S	21S	8S	4N	18N	31N	44N	57N
6292	11	2	F	62E	02	15	081301	78S	72S	60S	47S	34S	21S	7S	5N	18N	31N	44N	57N
6293	12	2	F	34E	02	15	100753	78S	71S	59S	46S	33S	20S	7S	6N	19N	32N	45N	58N
6294	13	2	F	5E	02	15	120248	78S	70S	58S	46S	32S	19S	6S	6N	20N	33N	46N	59N
6295	1	2	F	24W	02	15	135726	78S	71S	59S	46S	33S	20S	6S	6N	19N	32N	45N	58N
6296	2	2	W	52W	02	15	155150	78S	71S	59S	47S	33S	20S	7S	5N	18N	32N	45N	57N
6297	3	2	F	81W	02	15	174617	78S	72S	60S	47S	34S	21S	8S	5N	18N	31N	44N	57N
6298	4	2	F	110W	02	15	194047	78S	72S	60S	48S	34S	21S	8S	4N	17N	31N	44N	56N
6299	5	2	F	138W	02	15	213520	78S	72S	61S	48S	35S	22S	8S	4N	17N	30N	43N	56N
6300	6	2	W	167W	02	15	232956	78S	72S	61S	48S	35S	22S	8S	4N	17N	30N	43N	56N
6301	7	2	W	164E	02	16	012436	78S	72S	61S	48S	35S	22S	8S	4N	17N	30N	43N	56N
6302	8	2	W	136E	02	16	031917	78S	72S	60S	48S	35S	21S	8S	4N	17N	31N	44N	56N
6303	9	2	W	107E	02	16	051403	78S	72S	60S	47S	34S	21S	8S	5N	18N	31N	44N	57N
6304	10	2	W	78E	02	16	070851	78S	72S	60S	47S	34S	21S	7S	5N	18N	31N	45N	57N
6305	11	2	F	50E	02	16	090342	78S	71S	59S	46S	33S	20S	7S	6N	19N	32N	45N	58N
6306	12	2	F	21E	02	16	105837	78S	70S	58S	45S	32S	19S	6S	7N	20N	33N	46N	59N
6307	1	2	F	8W	02	16	125334	78S	70S	57S	45S	31S	18S	5S	8N	21N	34N	47N	60N
6308	2	2	F	36W	02	16	144814	78S	70S	57S	45S	32S	18S	5S	7N	20N	33N	46N	59N
6309	3	2	W	65W	02	16	164238	78S	70S	58S	45S	32S	20S	7S	6N	20N	33N	46N	59N
6310	4	2	F	94W	02	16	183704	78S	71S	59S	46S	33S	20S	7S	6N	19N	32N	45N	58N
6311	5	2	F	122W	02	16	203134	78S	71S	59S	46S	33S	20S	7S	5N	19N	32N	45N	58N
6312	6	2	F	151W	02	16	222607	78S	71S	59S	47S	34S	20S	7S	5N	18N	31N	45N	57N
6313	7	2	W	180W	02	17	002042	78S	71S	60S	47S	34S	21S	7S	5N	18N	31N	44N	57N
6314	8	2	W	152E	02	17	021522	78S	71S	60S	47S	34S	21S	7S	5N	18N	31N	45N	57N
6315	9	2	W	123E	02	17	041005	78S	71S	59S	47S	33S	20S	7S	5N	19N	32N	45N	58N
6316	10	2	W	94E	02	17	060452	78S	71S	59S	46S	33S	20S	7S	6N	19N	32N	45N	58N

PASS	TRACK	C	S	ALON	MO	DA	HRMNS	SUB-SATELLITE				POINT	PICTURE	LOCATION			
								LAT	LAT	LAT	LAT	LAT	LAT	LAT	LAT	LAT	LAT
6316	11	2	F	66E	02	17	075941	78S	70S	58S	46S	33S	19S	6S	6N	20N	33N
6317	12	2	F	37E	02	17	095434	78S	70S	58S	45S	32S	19S	5S	7N	20N	34N
6318	13	2	F	8E	02	17	114930	78S	69S	57S	44S	31S	18S	4S	8N	21N	34N
6319	1	2	F	20W	02	17	134409	78S	69S	57S	44S	31S	18S	5S	8N	21N	34N
6320	2	2	W	49W	02	17	153833	78S	70S	58S	45S	32S	19S	5S	7N	20N	33N
6321	3	2	F	78W	02	17	173300	78S	70S	58S	46S	32S	19S	6S	6N	19N	33N
6322	4	2	F	106W	02	17	192730	78S	71S	59S	46S	33S	20S	6S	6N	19N	32N
6323	5	2	F	135W	02	17	212203	78S	71S	59S	46S	33S	20S	7S	6N	19N	32N
6324	-0	2	F	169W	02	17	231639	79S	71S	59S	47S	33S	20S	7S	6N	19N	32N
6325	-0	2	W	168E	02	18	011118	78S	71S	59S	46S	33S	20S	7S	6N	19N	32N
6326	-0	2	W	168E	02	18	030600	78S	71S	59S	46S	33S	20S	7S	6N	19N	32N
6327	9	2	W	110E	02	18	050045	78S	71S	59S	46S	33S	19S	6S	6N	19N	33N
6328	10	2	W	82E	02	18	065533	78S	70S	58S	45S	32S	19S	6S	7N	20N	33N
6329	11	2	F	53E	02	18	085025	78S	70S	57S	45S	31S	18S	5S	7N	21N	34N
6330	12	2	F	24E	02	18	104519	78S	69S	57S	44S	31S	17S	4S	8N	21N	35N
6331	1	2	F	4W	02	18	124017	77S	68S	56S	43S	30S	16S	3S	9N	22N	36N
6332	2	2	F	33W	02	18	143458	77S	68S	56S	43S	30S	17S	3S	9N	22N	35N
6333	3	2	W	62W	02	18	162921	78S	69S	57S	45S	32S	19S	6S	7N	20N	33N
6334	4	2	F	90W	02	18	182348	78S	69S	57S	44S	31S	18S	5S	7N	21N	34N
6335	5	2	F	124E	02	18	201818	79S	71S	59S	46S	33S	20S	7S	6N	19N	32N
6336	6	2	F	153E	02	18	221251	79S	72S	59S	46S	33S	20S	7S	6N	19N	32N
6337	7	2	W	176W	02	19	000727	78S	70S	58S	45S	32S	19S	6S	7N	20N	33N
6338	8	2	W	155E	02	19	020206	78S	70S	58S	45S	32S	19S	6S	7N	20N	33N
6339	9	2	W	126E	02	19	035648	78S	70S	58S	45S	32S	19S	5S	7N	20N	33N
6340	10	2	W	98E	02	19	055133	78S	70S	57S	45S	32S	18S	5S	7N	21N	34N
6341	11	2	W	69E	02	19	074622	78S	69S	57S	44S	31S	18S	4S	8N	21N	34N
6342	12	2	F	40E	02	19	094113	78S	69S	56S	43S	30S	17S	4S	8N	22N	35N
6343	13	2	F	12E	02	19	113607	77S	68S	56S	43S	30S	16S	3S	9N	23N	36N
6344	1	2	F	17W	02	19	133105	77S	67S	55S	42S	29S	15S	2S	10N	24N	37N
6345	2	2	W	46W	02	19	152545	77S	67S	55S	42S	29S	16S	2S	10N	23N	36N
6346	3	2	F	74W	02	19	172009	77S	68S	55S	43S	29S	16S	3S	9N	22N	36N
6347	4	2	F	103W	02	19	191435	77S	68S	56S	43S	30S	17S	4S	9N	22N	35N
6348	5	2	F	132W	02	19	210905	78S	69S	56S	44S	31S	17S	4S	8N	21N	35N
6349	6	2	F	160W	02	19	230338	78S	69S	57S	44S	31S	18S	4S	8N	21N	34N
6350	7	2	W	171E	02	20	005818	78S	69S	57S	44S	31S	18S	4S	8N	21N	34N
6351	8	2	W	142E	02	20	025257	78S	69S	57S	44S	31S	17S	4S	8N	21N	34N
6352	9	2	W	114E	02	20	044739	78S	69S	57S	44S	31S	17S	4S	8N	21N	35N
6353	10	2	W	85E	02	20	064224	78S	68S	56S	43S	30S	17S	4S	9N	22N	35N
6354	11	2	F	56E	02	20	083712	77S	68S	56S	43S	30S	16S	3S	9N	22N	36N
6355	12	2	F	28E	02	20	103203	77S	67S	55S	42S	29S	16S	3S	10N	23N	36N
6356	1	2	F	1W	02	20	122658	77S	67S	54S	41S	28S	15S	2S	11N	24N	37N
6357	2	2	F	30W	02	20	142135	77S	67S	55S	42S	29S	15S	2S	10N	23N	36N
6358	3	2	W	58W	02	20	161558	77S	68S	55S	42S	29S	16S	3S	9N	22N	36N
6359	4	2	F	87W	02	20	181024	77S	68S	56S	43S	30S	17S	4S	9N	22N	35N
6360	5	2	F	116W	02	20	200452	78S	69S	56S	44S	31S	17S	4S	8N	21N	35N
6361	6	2	F	144W	02	20	215924	78S	69S	57S	44S	31S	18S	4S	8N	21N	34N
6362	7	2	F	173W	02	20	235359	78S	69S	57S	44S	31S	18S	5S	8N	21N	34N
6363	8	2	W	158E	02	21	014837	78S	69S	57S	44S	31S	18S	5S	8N	21N	34N
6364	9	2	W	130E	02	21	034319	78S	69S	57S	44S	31S	18S	4S	8N	21N	34N
6365	10	2	W	101E	02	21	053803	78S	69S	57S	44S	31S	17S	4S	8N	21N	35N
6366	11	2	W	72E	02	21	073250	78S	68S	56S	43S	30S	17S	4S	9N	22N	35N
6367	12	2	F	44E	02	21	092741	77S	68S	56S	43S	29S	16S	3S	9N	23N	36N
6368	13	2	F	15E	02	21	112234	77S	67S	55S	42S	29S	16S	2S	10N	23N	37N
6369	1	2	F	14W	02	21	131731	76S	66S	54S	41S	28S	15S	1S	11N	24N	37N
6370	2	2	W	42W	02	21	151210	76S	66S	54S	41S	28S	15S	2S	11N	24N	37N
6371	3	2	F	71W	02	21	170632	77S	67S	55S	42S	29S	16S	3S	10N	23N	36N
6372	4	2	F	100W	02	21	190058	77S	68S	55S	43S	30S	16S	3S	9N	22N	35N
6373	5	2	F	128W	02	21	205527	77S	68S	56S	43S	30S	17S	4S	9N	22N	35N
6374	6	2	F	157W	02	21	224959	78S	68S	56S	43S	30S	17S	4S	8N	22N	35N
6375	7	2	W	174E	02	22	004431	78S	69S	57S	44S	31S	17S	4S	8N	21N	34N
6376	8	2	W	146E	02	22	023908	78S	69S	57S	44S	31S	18S	4S	8N	21N	34N
6377	9	2	W	117E	02	22	043349	78S	69S	57S	44S	31S	17S	4S	8N	21N	35N
6378	10	2	W	88E	02	22	062833	78S	68S	56S	43S	30S	17S	4S	8N	22N	35N
6379	11	2	F	60E	02	22	082320	77S	68S	56S	43S	30S	17S	3S	9N	22N	35N
6380	12	2	F	31E	02	22	101810	77S	68S	55S	42S	29S	16S	3S	9N	23N	36N
6381	13	2	F	2E	02	22	121303	77S	67S	55S	42S	29S	15S	2S	10N	24N	37N
6382	1	2	F	26W	02	22	140741	77S	67S	55S	42S	29S	16S	2S	10N	23N	36N
6383	2	2	W	55W	02	22	160203	77S	68S	56S	43S	30S	17S	3S	9N	22N	35N
6384	3	2	F	84W	02	22	175629	78S	68S	56S	43S	30S	17S	4S	8N	22N	35N
6385	4	2	F	112W	02	22	195058	78S	69S	57S	44S	31S	18S	4S	8N	21N	34N
6386	5	2	F	141W	02	22	214530	78S	69S	57S	44S	31S	18S	5S	8N	21N	34N
6387	6	2	F	170W	02	22	234005	78S	69S	57S	44S	31S	18S	5S	7N	21N	34N
6388	7	2	W	162E	02	23	013443	78S	69S	57S	44S	31S	18S	5S	7N	21N	34N
6389	8	2	W	133E	02	23	032924	78S	69S	57S	44S	31S	18S	5S	8N	21N	34N
6390	9	2	W	104E	02	23	052408	78S	69S	57S	44S	31S	18S	4S	8N	21N	34N

PASS	TRACK	C	S	ALON	MO	DA	HRMNS	SUB-SATELLITE				POINT		PICTURE		LOCATION			
								LAT	LAT	LAT	LAT	LAT	LAT	LAT	LAT	LAT	LAT	LAT	LAT
6081	10	2	M	76E	02	23	071856	78S	69S	56S	44S	30S	17S	4S	8N	22N	35N	48N	61N
6092	11	2	F	45E	02	23	091346	78S	69S	57S	44S	31S	18S	5S	8N	21N	34N	47N	61N
6093	12	2	F	16E	02	23	110839	77S	68S	57S	44S	30S	18S	6S	9N	22N	35N	48N	61N
6098	12	1	F	25E	02	23	142300	9S	4N	17N	31N	44N	57N						
6099	1	2	F	41W	02	23	145814	77S	68S	56S	43S	29S	16S	3S	10N	23N	36N	49N	62N
6095	2	2	F	41W	02	23	145814	77S	67S	56S	43S	30S	17S	4S	9N	23N	36N	48N	62N
6096	3	2	F	69W	02	23	165236	78S	69S	57S	31S	18S	4S	9N	22N	35N	48N		
6097	4	2	F	98W	02	23	184701	78S	69S	57S	44S	32S	18S	5S	8N	21N	34N	47N	60N
6098	5	2	F	127W	02	23	204129	78S	70S	57S	45S	32S	19S	6S	7N	21N	34N	47N	59N
6099	6	2	F	155W	02	23	223539	78S	73S	58S	45S	32S	19S	6S	7N	20N	33N	46N	59N
6400	7	2	M	176E	02	24	003037	78S	70S	58S	45S	33S	19S	6S	7N	20N	33N	46N	59N
6401	8	2	M	148E	02	24	022512	79S	70S	58S	46S	33S	19S	6S	7N	20N	33N	46N	59N
6402	9	2	M	119E	02	24	041951	79S	50S	58S	45S	33S	19S	6S	7N	20N	33N	46N	59N
6403	10	2	M	119E	02	24	041951	79S	70S	58S	45S	32S	19S	6S	7N	20N	33N	46N	59N
6404	11	2	F	61E	02	24	080918	79S	70S	58S	45S	32S	19S	6S	7N	21N	34N	47N	60N
6405	12	2	F	33E	02	24	100406	79S	69S	57S	45S	32S	18S	5S	8N	21N	34N	47N	60N
6406	13	2	F	4E	02	24	115857	78S	69S	57S	45S	31S	18S	4S	9N	22N	35N	48N	60N
6407	1	2	F	24W	02	24	135334	78S	69S	57S	44S	31S	18S	5S	8N	21N	34N	47N	60N
6408	2	2	W	53W	02	24	154656	78S	69S	58S	45S	32S	19S	6S	7N	21N	34N	47N	
6409	3	2	F	82W	02	24	174222	79S	69S	58S	45S	33S	20S	6S	7N	20N	33N	46N	59N
6410	4	2	F	114W	02	24	193651	79S	71S	59S	46S	33S	20S	7S	6N	20N	33N	46N	58N
6411	5	2	F	143W	02	24	213123	79S	71S	59S	46S	33S	20S	7S	6N	19N	32N	45N	58N
6412	6	2	F	171W	02	24	232558	79S	71S	59S	46S	34S	20S	7S	6N	19N	32N	45N	58N
6413	7	2	W	161E	02	25	012036	79S	71S	59S	47S	34S	19S	7S	6N	19N	32N	45N	58N
6414	8	2	W	132E	02	25	031937	79S	72S	59S	46S	33S	19S	7S	6N	19N	32N	45N	58N
6415	9	2	W	103E	02	25	051001	79S	71S	59S	47S	33S	20S	7S	6N	19N	33N	46N	58N
6416	10	2	W	74E	02	25	070448	79S	71S	58S	46S	33S	20S	7S	7N	20N	33N	46N	59N
6417	11	2	F	49E	02	25	085939	79S	70S	57S	45S	33S	19S	6S	7N	20N	34N	47N	60N
6418	12	2	F	20E	02	25	105432	78S	69S	57S	44S	32S	18S	5S	8N	22N	34N	47N	61N
6419	1	2	F	9W	02	25	124929	78S	68S	57S	43S	31S	18S	4S	9N	22N	36N	48N	62N
6420	2	2	F	37W	02	25	144408	78S	79S	57S	44S	31S	18S	5S	9N	22N	35N	48N	61N
6421	3	2	F	65W	02	25	163831	79S	69S	58S	45S	32S	18S	5S	8N	21N	34N	47N	
6422	4	2	F	94W	02	25	183256	78S	70S	58S	45S	33S	19S	6S	7N	20N	34N	47N	60N
6423	5	2	F	123W	02	25	202725	79S	71S	58S	46S	33S	20S	7S	7N	20N	33N	46N	59N
6424	6	2	F	155W	02	25	222106	79S	71S	58S	46S	33S	20S	7S	6N	20N	32N	46N	59N
6425	7	2	W	174E	02	26	001632	79S	71S	59S	46S	33S	20S	7S	6N	20N	32N	46N	58N
6426	8	2	W	148E	02	26	021110	79S	71S	59S	46S	33S	20S	7S	6N	19N	32N	46N	59N
6427	9	2	W	119E	02	26	040551	79S	71S	59S	46S	33S	20S	7S	6N	20N	32N	46N	59N
6428	10	2	W	90E	02	26	060035	79S	71S	59S	46S	33S	20S	7S	6N	20N	32N	46N	59N
6429	11	2	F	65E	02	26	075523	79S	70S	68S	45S	33S	19S	6S	7N	20N	34N	47N	60N
6430	12	2	F	36E	02	26	095013	79S	70S	68S	45S	32S	19S	5S	8N	21N	34N	47N	60N
6431	13	2	F	8E	02	26	114506	78S	69S	58S	44S	31S	18S	5S	8N	21N	35N	48N	61N
6432	1	2	F	20W	02	26	134003	77S	67S	55S	43S	30S	17S	4S	9N	23N	35N	48N	
6433	2	2	W	48W	02	26	153441	77S	67S	55S	43S	30S	17S	4S	9N	23N	36N	49N	62N
6434	3	2	F	79W	02	26	172903	78S	69S	57S	44S	31S	18S	5S	8N	22N	35N	47N	60N
6435	4	2	F	107W	02	26	192327	79S	70S	58S	45S	32S	19S	6S	7N	21N	34N	47N	60N
6436	5	2	F	134W	02	26	211755	78S	69S	57S	45S	32S	19S	6S	7N	20N	34N	46N	59N
6437	6	2	F	163W	02	26	231226	78S	69S	57S	46S	33S	20S	7S	7N	20N	33N	46N	59N
6438	7	2	W	168E	02	27	010702	78S	69S	57S	46S	34S	20S	7S	6N	20N	33N	46N	59N
6439	8	2	W	135E	02	27	030139	79S	71S	59S	46S	34S	20S	7S	6N	20N	33N	46N	59N
6440	9	2	W	111E	02	27	045619	78S	69S	57S	46S	33S	20S	7S	7N	20N	33N	46N	59N
6441	10	2	W	83E	02	27	065102	78S	69S	57S	46S	33S	20S	7S	7N	20N	33N	47N	59N
6442	11	2	F	54E	02	27	084548	78S	69S	57S	44S	31S	18S	4S	8N	21N	34N	48N	60N
6443	12	2	F	25E	02	27	104037	78S	68S	56S	45S	32S	19S	6S	8N	21N	34N	47N	60N
6444	1	2	F	3W	02	27	123530	77S	68S	55S	43S	29S	16S	3S	9N	23N	36N	49N	62N
6445	2	2	F	32W	02	27	143007	77S	68S	56S	44S	31S	19S	6S	8N	21N	35N	47N	60N
6446	3	2	W	61W	02	27	162431	78S	68S	56S	45S	32S	19S	6S	8N	21N	34N	47N	
6447	4	2	F	89W	02	27	181857	78S	69S	57S	46S	32S	19S	6S	8N	20N	33N	47N	60N
6448	5	2	F	118W	02	27	201327	78S	69S	57S	46S	33S	20S	7S	6N	20N	33N	46N	59N
6449	6	2	F	147W	02	27	220800	78S	70S	58S	46S	34S	20S	8S	6N	20N	33N	45N	29N
6450	7	2	F	180E	09	10	080403	79S	72S	59S	46S	33S	20S	7S	7N	19N	33N	46N	59N
6451	8	2	W	151E	09	10	095801	79S	71S	59S	47S	33S	20S	7S	6N	19N	33N	46N	59N
6452	9	2	W	127E	02	28	035158	78S	70S	58S	46S	35S	20S	7S	7N	20N	33N	46N	61N
6453	10	2	W	99E	02	28	054643	78S	69S	57S	46S	33S	20S	7S	5N	20N	33N	47N	60N
6454	11	2	F	70E	02	28	074356	74S	62S	50S	38S	25S	12S	1N	14N	27N	41N	54N	66N
6455	12	2	F	41E	02	28	093847	63S	50S	37S	24S	11S	2N	15N	25N	42N			
6456	13	2	F	13E	02	28	113342	73S	61S	48S	35S	22S	9S	3N	17N	30N	43N	56N	68N
6457	1	2	F	16W	02	28	132840	72S	60S	47S	34S	21S	8S	4N	18N	31N	44N	57N	69N
6458	2	2	F	45W	02	28	152317	72S	60S	48S	35S	21S	8S	4N	17N	30N	43N	56N	68N
6459	3	2	F	73W	02	28	171739	73S	61S	48S	35S	22S	9S	3N	16N	30N	43N	55N	68N
6460	4	2	F	102W	02	28	191204	73S	62S	49S	36S	23S	10S	2N	16N	29N	42N	55N	67N
6461	5	2	F	131W	02	28	210632	73S	62S	50S	37S	24S	10S	2N	15N	28N	41N	54N	67N
6462	6	2	F	159W	02	28	230103	74S	63S	50S	37S	24S	11S	2N	15N	28N	41N	54N	66N
6463	7	2	W	172E	02	29	005541	74S	63S	50S	37S	24S	11S	2N	15N	28N	41N	54N	66N
6464	8	2	W	143E	00	00	025018	74S	63S	50S	37S	24S	11S	1N	15N	28N	41N	54N	66N

PASS	TRACK	C	S	ALON	MO	OA	HRMNSE	SUB-SATELLITE POINT PICTURE LOCATION									
								LAT	LAT	LAT	LAT	LAT	LAT	LAT	LAT	LAT	LAT
6465	9	2	W	115E	02	29	044458	74S	63S	50S	37S	24S	11S	2N	15N	28N	41N
6466	10	2	W	86E	02	29	063942	74S	62S	50S	37S	24S	10S	2N	15N	28N	42N
6467	11	2	F	57E	02	29	083428	73S	62S	49S	36S	23S	10S	2N	16N	29N	42N
6468	12	2	F	29E	02	29	102918	73S	61S	49S	37S	24S	11S	2N	15N	28N	41N
6469	1	2	F	0W	02	29	122410	72S	61S	48S	35S	22S	9S	4N	17N	30N	43N
6470	2	2	F	29W	02	29	141845	73S	61S	48S	36S	22S	9S	3N	16N	29N	42N
6471	3	2	F	58W	00	00	171200	75S	62S	50S	37S	24S	11S	2N	15N	28N	41N
6472	4	2	F	87W	00	00	190700	75S	64S	51S	38S	25S	12S	1N	15N	28N	41N
6473	5	2	F	115W	02	29	200156	74S	63S	51S	39S	26S	13S	0N	14N	27N	40N
6474	6	2	F	143W	02	29	215626	75S	64S	51S	38S	25S	12S	0N	14N	27N	40N
6475	7	2	F	172W	02	29	235059	75S	64S	51S	38S	25S	12S	0N	13N	27N	40N
6476	8	2	W	159E	03	01	014535	75S	64S	52S	39S	25S	12S	0N	13N	26N	40N
6477	9	2	W	131E	03	01	034014	75S	64S	51S	39S	25S	12S	0N	13N	27N	40N
6478	10	2	W	102E	03	01	053457	75S	64S	51S	38S	25S	12S	0N	14N	27N	40N
6479	11	2	W	73E	03	01	072942	75S	63S	51S	38S	25S	12S	1N	14N	27N	40N
6480	12	2	F	72E	03	01	075522	75S	64S	52S	38S	25S	12S	1N	14N	25N	39N
6481	13	2	F	44E	03	01	095101	75S	64S	51S	38S	25S	12S	1N	15N	28N	41N
6482	1	2	F	13W	03	01	131416	73S	62S	49S	36S	23S	10S	3N	16N	29N	42N
6483	2	2	F	41W	03	01	150853	73S	62S	49S	36S	23S	10S	2N	15N	29N	42N
6484	3	2	F	70W	03	01	170314	74S	63S	50S	37S	24S	11S	1N	15N	28N	41N
6485	4	2	F	99W	03	01	185739	74S	63S	51S	38S	25S	12S	1N	14N	27N	40N
6486	5	2	F	127W	03	01	205207	75S	64S	51S	38S	25S	12S	0N	13N	27N	40N
6487	6	2	F	156W	03	01	224638	75S	64S	52S	39S	26S	13S	0N	13N	26N	39N
6488	7	2	W	157W	03	01	231233	76S	65S	53S	40S	27S	14S	1S	12N	26N	39N
6489	8	2	W	174E	03	02	010711	76S	66S	53S	40S	28S	15S	1S	12N	25N	39N
6490	9	2	F	146E	03	02	030105	76S	66S	53S	40S	27S	14S	1S	12N	25N	39N
6491	10	2	F	117E	03	02	045629	76S	66S	53S	43S	27S	14S	1S	13N	26N	39N
6492	11	2	F	89E	03	02	065108	76S	65S	53S	40S	27S	13S	0N	13N	26N	39N
6493	12	2	W	60E	03	02	084547	76S	64S	52S	39S	26S	13S	0N	14N	27N	40N
6494	13	2	W	31E	03	02	104026	75S	64S	52S	38S	25S	12S	1N	14N	27N	40N
6495	1	2	F	25W	03	02	140413	74S	63S	51S	39S	26S	13S	0N	14N	27N	40N
6496	2	2	F	54W	03	02	155835	75S	64S	51S	39S	25S	12S	0N	13N	26N	40N
6497	3	2	F	83W	03	02	175300	75S	65S	52S	39S	26S	13S	0N	13N	26N	39N
6498	4	2	F	111W	03	02	194728	76S	65S	53S	40S	27S	13S	0N	12N	25N	38N
6499	5	2	F	140W	03	02	214158	76S	65S	53S	40S	27S	14S	1S	12N	25N	38N
6500	6	2	F	169W	03	02	233632	76S	66S	53S	40S	27S	14S	1S	11N	25N	38N
6501	7	2	W	160E	03	03	013110	77S	67S	54S	42S	28S	15S	3S	11N	24N	37N
6502	8	2	W	131E	03	03	032550	77S	67S	54S	41S	28S	15S	3S	11N	24N	37N
6503	9	2	W	102E	03	03	052033	77S	67S	54S	41S	28S	15S	3S	11N	24N	37N
6504	10	2	W	73E	03	03	071519	77S	66S	54S	41S	28S	15S	2S	12N	25N	38N
6505	11	2	F	45E	03	03	091009	77S	66S	54S	41S	28S	15S	1S	12N	26N	39N
6506	12	2	F	16E	03	03	110501	76S	65S	53S	40S	29S	14S	0N	13N	26N	40N
6507	1	2	F	9W	03	03	125956	74S	63S	51S	38S	24S	11S	1N	14N	28N	41N
6508	2	2	F	38W	03	03	145435	74S	63S	51S	38S	25S	12S	1N	14N	27N	40N
6509	3	2	F	67W	03	03	164859	75S	64S	51S	39S	25S	12S	0N	13N	26N	40N
6510	4	2	F	95W	03	03	184326	75S	64S	52S	39S	26S	13S	0N	13N	26N	39N
6511	5	2	F	124W	03	03	203755	75S	65S	52S	40S	27S	13S	0N	12N	25N	39N
6512	6	2	F	153W	03	03	223228	76S	65S	53S	40S	27S	14S	0N	12N	25N	38N
6513	7	2	W	174E	03	04	002705	77S	66S	54S	41S	28S	15S	2S	11N	25N	38N
6514	8	2	W	148E	03	04	022144	77S	66S	54S	41S	28S	15S	2S	11N	25N	38N
6515	9	2	W	119E	03	04	041626	77S	66S	54S	41S	27S	15S	2S	12N	25N	38N
6516	10	2	W	90E	03	04	061111	77S	66S	54S	40S	28S	14S	1S	12N	25N	38N
6517	11	2	F	61E	03	04	080600	76S	65S	53S	40S	27S	14S	1S	12N	26N	39N
6518	12	2	F	32E	03	04	100051	76S	65S	53S	39S	26S	13S	0N	13N	26N	40N
6519	13	2	F	3E	03	04	115546	75S	64S	52S	39S	26S	13S	1N	14N	27N	41N
6520	1	2	F	25W	03	04	135023	75S	64S	52S	39S	26S	13S	0N	14N	27N	40N
6521	2	2	F	54W	03	04	154445	76S	65S	53S	40S	27S	14S	1N	13N	26N	39N
6522	3	2	F	85E	03	04	173909	76S	66S	54S	40S	28S	15S	2S	12N	25N	38N
6523	4	2	F	110W	03	04	193337	76S	66S	54S	41S	28S	15S	2S	11N	25N	38N
6524	5	2	F	139W	03	04	212808	76S	66S	54S	41S	28S	15S	2S	11N	24N	38N
6525	6	2	F	168W	03	04	232245	77S	67S	54S	42S	28S	15S	2S	11N	24N	38N
6526	7	2	W	164E	03	05	011721	77S	67S	54S	42S	28S	16S	3S	11N	24N	38N
6527	8	2	W	135E	03	05	031201	77S	67S	54S	41S	28S	15S	3S	11N	25N	38N
6528	9	2	W	106E	03	05	050643	77S	67S	54S	41S	28S	15S	3S	11N	25N	38N
6529	10	2	W	77E	03	05	070129	77S	67S	54S	41S	28S	15S	2S	12N	25N	38N
6530	11	2	F	49E	03	05	085617	77S	66S	54S	40S	28S	14S	1S	12N	26N	38N
6531	12	2	F	20E	03	05	105109	76S	66S	53S	40S	27S	14S	0N	13N	26N	39N
6532	1	2	F	9W	03	05	124604	75S	64S	53S	39S	26S	13S	1N	14N	27N	40N
6533	2	2	F	38W	03	05	144042	75S	64S	53S	39S	26S	13S	0N	13N	26N	39N
6534	3	2	F	66W	03	05	163506	75S	65S	53S	40S	27S	14S	1S	12N	26N	39N
6535	4	2	F	95W	03	05	182933	76S	66S	54S	41S	28S	14S	1S	12N	25N	38N
6536	5	2	F	124W	03	05	202404	76S	66S	53S	41S	28S	15S	2S	11N	25N	38N
6537	6	2	F	152E	03	05	221838	79S	66S	54S	41S	28S	15S	2S	11N	25N	38N
6538	7	2	W	179E	03	06	001314	77S	67S	54S	41S	28S	15S	2S	11N	24N	38N
6539	8	2	W	150E	03	06	020754	77S	67S	54S	41S	28S	15S	2S	11N	25N	38N

PASS	TRACK	C	S	ALON	MO	DA	HRMNSE	SUB-SATELLITE			POINT PICTURE			LOCATION			LAT
								LAT	LAT	LAT	LAT	LAT	LAT	LAT	LAT	LAT	
6540	9	2	W	122E	03	06	040237	77S	67S	54S	41S	28S	15S	2S	12N	25N	38N
6541	10	2	W	93E	03	06	055723	76S	66S	53S	40S	28S	14S	1S	12N	25N	38N
6542	1	2	W	64E	03	06	075211	76S	66S	53S	40S	28S	14S	1S	12N	26N	39N
6543	12	2	F	36E	03	06	094703	75S	65S	53S	39S	26S	13S	0N	13N	26N	40N
6544	13	2	F	7E	03	06	114159	75S	64S	51S	39S	26S	13S	1N	14N	27N	41N
6545	1	3	F	22W	03	06	133636	75S	64S	52S	39S	26S	13S	1N	14N	27N	40N
6546	2	2	F	50W	03	06	153058	75S	65S	53S	40S	27S	14S	1S	13N	26N	39N
6547	3	2	F	79W	03	06	172523	76S	66S	53S	40S	28S	14S	2S	12N	25N	38N
6548	4	2	F	107W	03	06	191950	77S	66S	54S	41S	28S	2S	11N	24N	38N	51N
6549	5	2	F	136W	03	06	211421	76S	66S	54S	41S	28S	15S	2S	11N	24N	38N
6550	6	2	F	165W	03	06	230822	77S	67S	54S	41S	29S	16S	2S	11N	24N	37N
6551	7	2	W	167E	03	07	010333	77S	67S	54S	41S	29S	15S	3S	11N	24N	37N
6552	8	2	W	138E	03	07	025813	77S	67S	54S	41S	29S	15S	2S	11N	25N	38N
6553	9	2	W	109E	03	07	045255	77S	67S	54S	41S	28S	15S	2S	11N	24N	37N
6554	10	2	W	80E	03	07	064741	77S	66S	54S	41S	28S	15S	2S	11N	25N	39N
6555	11	2	F	41E	03	07	084230	76S	65S	54S	40S	28S	15S	1S	12N	25N	39N
6556	12	2	F	23E	03	07	103722	76S	65S	53S	40S	28S	14S	0N	13N	26N	39N
6557	1	2	F	3W	03	07	123217	74S	63S	51S	38S	25S	11S	1N	14N	27N	41N
6558	2	2	F	31W	03	07	142655	74S	63S	51S	38S	25S	12S	0N	14N	27N	40N
6559	3	2	F	60W	03	07	162120	75S	64S	52S	39S	26S	13S	0N	13N	26N	39N
6560	4	2	F	89W	03	07	181547	75S	65S	52S	39S	26S	13S	0N	12N	26N	39N
6561	5	2	F	117W	03	07	201018	76S	65S	53S	40S	27S	13S	0N	12N	25N	38N
6562	6	2	F	146W	03	07	220451	76S	65S	53S	40S	27S	14S	0N	12N	25N	38N
6563	7	2	W	175W	03	07	235928	76S	65S	53S	40S	27S	14S	1S	12N	25N	38N
6564	8	2	W	156E	03	08	015445	79S	72S	60S	42S	28S	15S	2S	11N	24N	37N
6565	9	2	W	125E	03	08	034850	77S	66S	54S	41S	28S	15S	2S	12N	25N	38N
6566	10	2	W	100E	03	08	054336	76S	66S	53S	40S	28S	15S	1S	12N	26N	38N
6567	11	2	W	70E	03	08	073825	76S	66S	53S	40S	27S	14S	1S	13N	25N	39N
6568	12	2	F	42E	03	08	093317	75S	64S	51S	38S	25S	12S	0N	14N	27N	40N
6569	13	2	F	13E	03	08	112812	74S	63S	50S	37S	24S	11S	1N	15N	28N	41N
6570	1	2	F	15W	03	08	132250	74S	63S	51S	38S	25S	11S	1N	14N	27N	40N
6571	2	2	F	44W	03	08	151711	75S	64S	51S	39S	25S	12S	0N	13N	26N	40N
6572	3	2	F	73W	03	08	171136	75S	65S	52S	39S	26S	13S	0N	12N	26N	39N
6573	4	2	F	101W	03	08	190604	76S	65S	53S	40S	27S	14S	0N	12N	25N	38N
6574	5	2	F	130W	03	08	210035	76S	65S	53S	40S	27S	14S	1S	12N	25N	38N
6575	6	2	F	159W	03	08	225509	76S	66S	53S	40S	27S	14S	1S	11N	25N	38N
6576	7	2	W	173E	03	09	004944	76S	66S	53S	41S	27S	14S	1S	11N	25N	38N
6577	8	2	W	144E	03	09	024424	76S	66S	53S	40S	27S	14S	1S	11N	25N	38N
6578	9	2	W	115E	03	09	043906	76S	66S	53S	40S	27S	14S	1S	12N	25N	38N
6579	10	2	W	87E	03	09	063352	76S	65S	53S	40S	27S	14S	0N	12N	25N	38N
6580	11	2	F	58E	03	09	082841	75S	65S	52S	39S	26S	13S	0N	13N	26N	39N
6581	12	2	F	29E	03	09	102332	75S	64S	52S	39S	26S	12S	0N	13N	26N	40N
6582	13	2	F	1E	03	09	121827	74S	63S	51S	38S	25S	12S	1N	14N	27N	41N
6583	1	2	F	28W	03	09	141306	74S	63S	51S	38S	25S	12S	0N	14N	27N	40N
6584	2	2	F	57W	03	09	160730	75S	64S	52S	39S	26S	13S	0N	13N	26N	39N
6585	3	2	F	85W	03	09	180157	75S	65S	52S	41S	28S	15S	2S	12N	25N	38N
6586	4	2	F	114W	03	09	195628	76S	65S	53S	40S	27S	14S	0N	12N	25N	38N
6587	5	2	F	143W	03	09	215101	76S	65S	53S	40S	27S	14S	1S	12N	25N	38N
6588	6	2	F	171W	03	09	234538	76S	65S	53S	40S	27S	14S	1S	12N	25N	38N
6589	7	2	W	160E	03	10	014018	76S	65S	53S	40S	27S	14S	1S	12N	25N	38N
6590	8	2	W	131E	03	10	033500	76S	65S	53S	40S	27S	14S	0N	12N	25N	38N
6591	9	2	W	103E	03	10	052946	75S	65S	52S	40S	26S	13S	0N	12N	26N	39N
6592	10	2	W	74E	03	10	072435	75S	64S	52S	39S	26S	13S	0N	13N	26N	39N
6593	11	2	F	45E	03	10	091927	75S	64S	51S	38S	25S	12S	0N	14N	27N	40N
6594	12	2	F	17E	03	10	111422	74S	63S	50S	38S	24S	11S	1N	14N	28N	41N
6595	1	2	F	12W	03	10	130900	74S	63S	51S	38S	25S	12S	1N	14N	27N	40N
6596	2	2	F	41W	03	10	150321	75S	64S	52S	39S	26S	12S	0N	13N	26N	40N
6597	3	2	F	69W	03	10	165746	75S	65S	52S	39S	26S	13S	0N	12N	26N	39N
6598	4	2	F	98W	03	10	185214	76S	65S	53S	40S	27S	14S	0N	12N	25N	38N
6599	5	2	F	127W	03	10	204645	76S	65S	53S	40S	27S	14S	1S	12N	25N	38N
6600	6	2	F	155W	03	10	224119	76S	66S	53S	40S	27S	14S	1S	11N	25N	38N
6601	7	2	W	176E	03	11	003556	76S	66S	53S	41S	27S	14S	1S	11N	25N	38N
6602	8	2	W	147E	03	11	023036	76S	66S	53S	40S	27S	14S	1S	11N	25N	38N
6603	9	2	W	119E	03	11	042519	76S	65S	53S	40S	27S	14S	1S	12N	25N	38N
6604	10	2	W	90E	03	11	062005	76S	65S	53S	40S	27S	14S	0N	12N	25N	39N
6605	11	2	F	61E	03	11	081455	75S	65S	52S	39S	26S	13N	0N	13N	26N	39N
6606	12	2	F	33E	03	11	100947	75S	64S	52S	39S	25S	12S	0N	13N	27N	40N
6607	13	2	F	4E	03	11	120443	74S	63S	51S	38S	25S	11S	1N	14N	28N	41N
6608	1	2	F	25W	03	11	135920	74S	63S	51S	38S	25S	12S	0N	14N	27N	40N
6609	2	2	F	53W	03	11	155342	75S	64S	52S	39S	26S	13S	0N	13N	26N	39N
6610	3	2	F	82W	03	11	174806	75S	65S	52S	40S	27S	13S	0N	12N	25N	39N
6611	4	2	F	111W	03	11	194234	76S	65S	53S	40S	27S	14S	1S	12N	25N	38N
6612	5	2	F	139W	03	11	213705	76S	66S	53S	40S	27S	14S	1S	11N	25N	38N
6613	6	2	F	168W	03	11	233146	76S	66S	53S	40S	27S	14S	1S	11N	25N	38N
6614	7	2	W	163E	03	12	012622	76S	66S	53S	40S	27S	14S	1S	11N	25N	38N

PASS	TRACK	C	S	ALON	MO	DA	HRMNS	LAT		SUB-SATELLITE		POINT		PICTURE		LOCATION		LAT		LAT	
								LAT	LAT	LAT	LAT	LAT	LAT	LAT	LAT	LAT	LAT	LAT	LAT	LAT	LAT
6615	8	2	W	135E	03	12	032102	76S	66S	53S	40S	27S	14S	1S	11N	25N	38N	51N	64N		
6616	9	2	W	106E	03	12	051545	76S	65S	53S	40S	27S	14S	1S	12N	25N	38N	51N	64N		
6617	10	2	W	77E	03	12	071031	76S	65S	53S	40S	27S	13S	0N	12N	25N	39N	52N	65N		
6618	11	2	F	49E	03	12	090520	75S	65S	52S	39S	26S	13S	0N	13N	26N	39N	52N	65N		
6619	12	2	F	20E	03	12	110012	75S	64S	52S	39S	25S	12S	0N	13N	27N	40N	53N	66N		
6620	1	2	F	9W	03	12	125507	74S	63S	51S	38S	25S	11S	1N	14N	28N	41N	54N	66N		
6621	2	2	F	37W	03	12	144946	74S	63S	51S	38S	25S	12S	1N	14N	27N	40N	53N	66N		
6622	3	2	F	66W	03	12	164409	75S	64S	52S	39S	26S	13S	0N	13N	26N	39N	52N	65N		
6623	4	2	F	95W	03	12	183836	75S	65S	52S	39S	26S	13S	0N	12N	26N	39N	52N	65N		
6624	5	2	F	123W	03	12	203306	76S	65S	53S	40S	27S	13S	0N	12N	25N	39N	52N	64N		
6625	6	2	F	152W	03	12	222739	76S	65S	53S	40S	27S	14S	1S	12N	25N	38N	51N	64N		
6626	7	2	W	179E	03	13	002215	76S	65S	53S	40S	27S	14S	1S	12N	25N	38N	51N	64N		
6627	8	2	W	151E	03	13	021654	76S	65S	53S	40S	27S	14S	1S	12N	25N	38N	51N	64N		
6628	9	2	W	122E	03	13	041137	76S	65S	53S	40S	27S	14S	0N	12N	25N	38N	52N	64N		
6629	10	2	W	93E	03	13	060622	75S	65S	52S	40S	26S	13S	0N	12N	26N	39N	52N	65N		
6630	11	2	F	65E	03	13	080110	75S	64S	52S	39S	26S	13S	0N	13N	26N	39N	52N	65N		
6631	12	2	F	36E	03	13	095602	75S	64S	51S	38S	25S	12S	0N	14N	27N	40N	53N	66N		
6632	13	2	F	7E	03	13	115056	74S	63S	51S	38S	25S	11S	1N	14N	28N	41N	54N	66N		
6633	1	2	F	21W	03	13	134534	74S	63S	51S	38S	25S	12S	1N	14N	27N	40N	53N	66N		
6634	2	2	F	50W	03	13	153957	75S	64S	52S	39S	26S	12S	0N	13N	26N	40N	53N	65N		
6635	3	2	F	79W	03	13	173423	75S	65S	52S	39S	26S	13S	0N	12N	26N	39N	52N	65N		
6636	4	2	F	107W	03	13	192851	76S	65S	53S	40S	27S	14S	0N	12N	25N	38N	51N	64N		
6637	5	2	F	138W	03	13	212323	76S	66S	53S	41S	28S	15S	2S	12N	25N	38N	51N	64N		
6638	6	2	F	165W	03	13	231758	76S	66S	53S	40S	27S	14S	1S	11N	25N	38N	51N	64N		
6639	7	2	W	167E	03	14	011236	76S	66S	53S	40S	27S	14S	1S	11N	25N	38N	51N	64N		
6640	8	2	W	138E	03	14	030717	76S	65S	53S	40S	27S	14S	1S	12N	25N	38N				
6641	9	2	W	109E	03	14	050201	76S	65S	53S	40S	27S	14S	0N	12N	25N	38N	52N	64N		
6642	10	2	W	81E	03	14	065647	75S	65S	52S	40S	26S	13S	0N	12N	26N	39N	52N	65N		
6643	11	2	F	52E	03	14	085137	75S	64S	52S	39S	26S	13S	0N	13N	26N	40N	53N	65N		
6644	12	2	F	23E	03	14	104630	75S	64S	51S	38S	25S	12S	0N	14N	27N	40N	53N	66N		
6645	1	2	F	5W	03	14	124126	74S	63S	50S	37S	24S	11S	1N	15N	28N	41N	54N	67N		
6646	2	2	F	34W	03	14	143604	74S	63S	51S	38S	25S	11S	1N	14N	27N	41N	54N	66N		
6647	3	2	F	63W	03	14	163027	75S	64S	51S	38S	25S	12S	0N	13N	27N	40N	53N	65N		
6648	4	2	F	91W	03	14	182453	75S	64S	52S	39S	26S	13S	0N	13N	26N	39N	52N	65N		
6649	5	2	F	120W	03	14	201921	75S	65S	52S	40S	27S	13S	0N	12N	25N	39N	52N	64N		
6650	6	2	F	149W	03	14	221353	76S	65S	53S	40S	27S	14S	0N	12N	25N	38N	51N	64N		
6651	7	2	W	177W	03	15	000828	76S	65S	53S	40S	27S	14S	1S	12N	25N	38N	51N	64N		
6652	8	2	W	154E	03	15	020306	76S	65S	53S	40S	27S	14S	1S	12N	25N	38N	51N	64N		
6653	9	2	W	125E	03	15	035748	76S	65S	53S	40S	27S	14S	0N	12N	25N	38N	52N	64N		
6654	10	2	W	97E	03	15	055232	76S	65S	53S	40S	27S	13S	0N	12N	26N	39N	52N	65N		
6655	11	2	F	68E	03	15	074719	75S	65S	52S	39S	26S	13S	0N	13N	26N	39N	52N	65N		
6656	12	2	F	39E	03	15	094210	75S	64S	52S	39S	25S	12S	0N	13N	27N	40N	53N	66N		
6657	13	2	F	11E	03	15	113703	74S	63S	51S	38S	25S	12S	1N	14N	27N	41N	54N	66N		
6658	1	2	F	18W	03	15	133141	74S	63S	51S	38S	25S	12S	1N	14N	27N	40N	53N	66N		
6659	2	2	F	47W	03	15	152603	75S	64S	52S	39S	26S	13S	0N	13N	26N	39N	52N	65N		
6660	3	2	F	75W	03	15	172029	75S	65S	52S	39S	26S	13S	0N	12N	26N	39N	52N	64N		
6661	4	2	F	104W	03	15	191458	76S	65S	53S	40S	27S	14S	0N	12N	25N	38N	51N	64N		
6662	5	2	F	133W	03	15	210930	76S	65S	53S	40S	27S	14S	1S	12N	25N	38N	51N	64N		
6663	6	2	F	161W	03	15	230405	76S	66S	53S	40S	27S	14S	1S	11N	25N	38N	51N	64N		
6664	7	2	W	170E	03	16	005843	76S	66S	53S	40S	27S	14S	1S	11N	25N	38N	51N	64N		
6665	8	2	W	141E	03	16	025324	76S	66S	53S	40S	27S	14S	1S	12N	25N	38N	51N	64N		
6666	9	2	W	113E	03	16	044808	76S	65S	53S	40S	27S	14S	0N	12N	25N	38N	52N	64N		
6667	10	2	W	84E	03	16	064255	75S	65S	53S	40S	27S	13S	0N	12N	26N	39N	52N	65N		
6668	11	2	F	55E	03	16	083745	75S	64S	52S	39S	26S	13S	0N	13N	26N	40N	53N	65N		
6669	12	2	F	27E	03	16	103238	75S	64S	51S	38S	25S	12S	0N	14N	27N	40N	53N	66N		
6670	1	2	F	2W	03	16	122246	78S	75S	64S	52S	39S	26S	12S	0N	13N	27N	40N	53N		
6671	2	2	F	31W	03	16	142213	74S	63S	51S	38S	25S	11S	1N	14N	27N	41N	54N	66N		
6672	3	2	F	59W	03	16	161635	75S	64S	51S	38S	25S	12S	0N	13N	27N	40N	53N	65N		
6673	4	2	F	88W	03	16	181100	75S	64S	52S	39S	26S	13S	0N	13N	26N	39N	52N	65N		
6674	5	2	F	117W	03	16	200527	75S	65S	53S	40S	27S	13S	0N	12N	25N	39N	52N	64N		
6675	6	2	F	145W	03	16	215958	76S	65S	53S	40S	27S	14S	1S	12N	25N	38N	51N	64N		
6676	7	2	W	174W	03	16	235432	76S	65S	53S	40S	27S	14S	1S	12N	25N	38N	51N	64N		
6677	8	2	W	157E	03	17	014910	76S	66S	53S	40S	27S	14S	1S	12N	25N	38N	51N	64N		
6678	9	2	W	129E	03	17	034350	76S	65S	53S	40S	27S	14S	1S	12N	25N	38N	51N	64N		
6679	10	2	W	100E	03	17	053833	76S	65S	53S	40S	27S	14S	0N	12N	25N	38N	52N	64N		
6680	11	2	W	71E	03	17	073319	75S	65S	53S	40S	27S	13S	0N	12N	26N	39N	52N	65N		
6681	12	2	F	43E	03	17	092809	75S	64S	52S	39S	26S	13S	0N	13N	26N	39N	53N	65N		
6682	13	2	F	14E	03	17	112301	75S	64S	51S	38S	25S	12S	0N	14N	27N	40N	53N	66N		
6683	1	2	F	15W	03	17	131757	74S	63S	50S	38S	24S	11S	1N	15N	28N	41N	54N	67N		
6684	2	2	F	43W	03	17	151234	74S	63S	51S	38S	25S	12S	1N	14N	27N	40N	53N	66N		
6685	3	2	F	72W	03	17	170657	75S	64S	51S	39S	26S	12S	0N	13N	26N	40N	53N	65N		
6686	4	2	F	101W	03	17	190123	75S	64S	52S											

PASS	TRACK	C	S	ALON	MO	OA	HRMNSE	SUB-SATELLITE					POINT		PICTURE		LOCATION		
								LAT	LAT	LAT	LAT	LAT	LAT	LAT	LAT	LAT	LAT	LAT	LAT
6690	8	2	W	145E	03	18	023937	76S	65S	53S	40S	27S	14S	1S	12N	25N	38N	51N	64N
6691	9	2	W	116E	03	18	043418	76S	65S	53S	40S	27S	14S	1S	12N	25N	38N	51N	64N
6692	10	2	W	87E	03	18	062902	76S	65S	53S	40S	27S	14S	0N	12N	25N	39N	52N	64N
6693	11	2	F	59E	03	18	082350	75S	65S	52S	39S	26S	13S	0N	13N	26N	39N	52N	65N
6694	12	2	F	30E	03	18	101840	75S	64S	52S	39S	26S	12S	0N	13N	27N	40N	53N	65N
6695	13	2	F	1E	03	18	121334	74S	63S	51S	38S	25S	12S	1N	14N	27N	41N	54N	66N
6696	1	2	F	27W	03	18	140810	75S	64S	51S	38S	25S	12S	0N	13N	27N	40N	53N	65N
6697	2	2	F	56W	03	18	160232	75S	64S	52S	39S	26S	13S	0N	13N	26N	39N	52N	65N
6698	3	2	F	85W	03	18	175657	76S	65S	53S	40S	27S	14S	0N	12N	25N	38N	51N	64N
6699	4	2	F	113W	03	18	195125	76S	66S	53S	40S	27S	14S	1S	11N	25N	38N	51N	64N
6700	5	2	F	142W	03	18	214555	76S	66S	54S	41S	28S	15S	1S	11N	24N	38N	51N	63N
6701	6	2	F	171W	03	18	234026	76S	66S	54S	41S	28S	15S	2S	11N	24N	37N	50N	63N
6702	7	2	W	161E	03	19	013502	76S	66S	54S	41S	28S	15S	2S	11N	24N	37N	50N	63N
6703	8	2	W	132E	03	19	032942	76S	66S	54S	41S	28S	15S	2S	11N	24N	37N	50N	63N
6704	9	2	W	103E	03	19	052425	76S	66S	54S	41S	28S	15S	1S	11N	24N	37N	51N	63N
6705	10	2	W	75E	03	19	071910	76S	66S	54S	41S	28S	14S	1S	11N	25N	38N	51N	64N
6706	11	2	F	46E	03	19	091359	76S	65S	53S	40S	27S	14S	1S	12N	25N	38N	52N	64N
6707	12	2	F	17E	03	19	110851	75S	65S	52S	39S	26S	13S	0N	13N	26N	39N	52N	65N
6708	1	2	F	11W	03	19	130346	75S	64S	52S	39S	26S	12S	0N	13N	27N	40N	53N	66N
6709	12	1	F	24E	03	19	143330	7S	6N	20N	33N	46N	59N						
6709	2	2	F	40W	03	19	154824	75S	64S	52S	39S	26S	13S	0N	13N	26N	39N	52N	65N
6710	3	2	F	69W	03	19	165247	75S	65S	53S	40S	27S	13S	0N	12N	25N	39N	52N	64N
6711	4	2	F	97W	03	19	184713	76S	65S	53S	40S	27S	14S	1S	11N	25N	38N	51N	64N
6712	5	2	F	126W	03	19	204141	76S	66S	54S	41S	28S	15S	1S	11N	24N	38N	51N	63N
6713	6	2	F	155W	03	19	223613	76S	66S	54S	41S	28S	15S	2S	11N	24N	37N	50N	63N
6714	7	2	W	177E	03	20	003048	76S	66S	54S	41S	28S	15S	2S	11N	24N	37N	50N	63N
6715	8	2	W	148E	03	20	022527	76S	66S	54S	41S	28S	15S	2S	11N	24N	37N	50N	63N
6716	9	2	W	119E	03	20	042008	76S	66S	54S	41S	28S	15S	2S	11N	24N	37N	50N	63N
6717	10	2	W	91E	03	20	061452	76S	66S	54S	41S	28S	15S	1S	11N	24N	38N	51N	63N
6718	11	2	F	62E	03	20	080939	76S	66S	53S	40S	27S	14S	1S	11N	25N	38N	51N	64N
6719	12	2	F	33E	03	20	100430	76S	65S	53S	40S	27S	14S	0N	12N	25N	39N	52N	65N
6720	13	2	F	5E	03	20	115923	75S	64S	52S	39S	26S	13S	0N	13N	26N	40N	53N	65N
6721	1	2	F	24W	03	20	135401	75S	65S	52S	39S	26S	13S	0N	12N	26N	39N	52N	65N
6722	2	2	F	53W	03	20	154824	76S	65S	53S	40S	27S	14S	1S	12N	25N	38N	51N	64N
6723	3	2	F	81W	03	20	174249	76S	66S	54S	41S	28S	15S	1S	11N	24N	38N	51N	63N
6724	4	2	F	110W	03	20	193718	76S	66S	54S	41S	28S	15S	2S	11N	24N	37N	50N	63N
6725	5	2	F	139W	03	20	213150	77S	67S	54S	42S	29S	15S	2S	10N	24N	37N	50N	63N
6726	6	2	W	167W	03	20	232626	77S	67S	55S	42S	29S	15S	2S	10N	23N	37N	50N	63N
6727	7	2	W	164E	03	21	012106	77S	67S	54S	42S	29S	15S	2S	10N	24N	37N	50N	63N
6728	8	2	W	135E	03	21	031548	77S	67S	54S	41S	28S	15S	2S	10N	24N	37N	50N	63N
6729	9	2	W	107E	03	21	051034	76S	66S	54S	41S	28S	15S	2S	11N	24N	37N	51N	63N
6730	10	2	W	78E	03	21	070523	76S	66S	53S	41S	27S	14S	1S	11N	25N	38N	51N	64N
6731	11	2	F	49E	03	21	090015	76S	65S	53S	40S	27S	14S	0N	12N	25N	39N	52N	65N
6732	12	2	F	21E	03	21	105510	75S	64S	52S	39S	26S	13S	0N	13N	26N	40N	53N	65N
6733	1	2	F	8W	03	21	125008	74S	64S	51S	38S	25S	12S	1N	14N	27N	41N	54N	66N
6734	2	2	F	37W	03	21	144447	74S	64S	51S	38S	25S	12S	0N	14N	27N	40N	53N	66N
6735	3	2	F	65W	03	21	163911	75S	64S	52S	39S	26S	13S	0N	13N	26N	39N	52N	65N
6736	4	2	F	94W	03	21	183338	75S	65S	52S	40S	27S	13S	0N	12N	26N	39N	52N	64N
6737	5	2	F	123W	03	21	202807	76S	65S	53S	40S	27S	14S	1S	12N	25N	38N	51N	64N
6738	6	2	F	151W	03	21	222240	76S	66S	53S	40S	27S	14S	1S	12N	25N	38N	51N	64N
6739	7	2	W	179W	03	22	001716	77S	67S	54S	42S	28S	16S	3S	10N	24N	37N	50N	63N
6740	8	2	W	148E	03	22	021155	77S	67S	54S	42S	29S	15S	2S	11N	24N	37N	50N	63N
6741	9	2	W	123E	03	22	040637	76S	65S	53S	40S	27S	14S	1S	12N	25N	38N	51N	64N
6742	10	2	W	94E	03	22	060122	76S	65S	53S	40S	27S	14S	0N	12N	25N	39N	52N	64N
6743	11	2	F	129E	03	22	075610	76S	66S	54S	40S	28S	14S	2S	12N	25N	37N	52N	64N
6744	12	2	F	37E	03	22	095101	75S	64S	52S	39S	26S	12S	0N	13N	27N	40N	53N	66N
6745	13	2	F	8E	03	22	114555	74S	64S	51S	38S	25S	12S	1N	14N	27N	41N	54N	66N
6746	1	2	F	20W	03	22	134052	74S	63S	50S	37S	24S	11S	2N	15N	28N	42N	55N	67N
6747	2	2	F	49W	03	22	153530	74S	63S	50S	37S	24S	11S	1N	14N	28N	41N	54N	66N
6748	3	2	F	78W	03	22	172954	74S	63S	51S	38S	25S	12S	0N	14N	27N	40N	53N	66N
6749	4	2	F	106W	03	22	192421	75S	64S	52S	39S	26S	12S	0N	13N	26N	40N	53N	65N
6750	5	2	F	135W	03	22	211851	75S	64S	52S	39S	26S	13S	0N	13N	26N	39N	52N	65N
6751	6	2	F	164W	03	22	231324	75S	65S	52S	39S	26S	13S	0N	12N	26N	39N	52N	65N
6752	7	2	W	168E	03	23	010757	75S	65S	53S	40S	27S	13S	0N	12N	26N	39N	52N	65N
6753	8	2	W	139E	03	23	030236	75S	65S	53S	40S	27S	13S	0N	12N	26N	39N	52N	65N
6754	9	2	W	110E	03	23	045718	75S	65S	52S	39S	26S	13S	0N	12N	26N	39N	52N	65N
6755	10	2	W	82E	03	23	062503	75S	64S	52S	39S	26S	13S	0N	13N	26N	39N	53N	65N
6756	11	2	F	53E	03	23	084651	75S	64S	52S	39S	26S	12S	0N	13N	27N	40N	53N	66N
6757	12	2	F	24E	03	23	104142	74S	63S	51S	38S	25S	12S	1N	14N	27N	41N	54N	66N
6758	1	2	F	4W	03	23	123636	74S	63S	50S	37S	24S	11S	1N	15N	28N	41N	55N	67N
6759	2	2	F	33W	03	23	143114	74S	63S	50S	38S	24S	11S	1N	14N	28N	41N	54N	66N
6760	3	2	F	62W	03	23	162536	75S	64S	51S	38S	25S	12S	0N	14N	27N	40N	53N	66N
6761	4	2	F	90W	03	23	182002	75S	64S	52S	39S	26S	13S	0N	13N	26N	39N	53N	65N
6762	5	2	F	119W	03	23	201431	75S	65S	52S	39S	26S	13S	0N	12N	26N	39N	52N	65N
6763	6	2	F	148W	03	23	220902	76S	65S	53S	40S	27S	14S	0N	12N	25N	39N	52N	64N

PASS	TRACK	C	S	ALON	MO	OA	HRMNS	SUB-SATELLITE					POINT	PICTURE	LOCATION				
								LAT	LAT	LAT	LAT	LAT	LAT	LAT	LAT	LAT	LAT	LAT	LAT
6764	7	2	W	176W	03	24	000337	76S	65S	53S	40S	27S	41S	ON	12N	25N	39N	52N	64N
6765	8	2	W	155E	03	24	015815	76S	65S	53S	40S	27S	13S	ON	12N	25N	39N	52N	65N
6766	9	2	W	126E	03	24	035256	76S	65S	53S	40S	27S	14S	ON	12N	25N	39N	52N	65N
6767	10	2	W	98E	03	24	054739	75S	65S	53S	40S	27S	14S	ON	12N	26N	39N	52N	65N
6768	11	2	F	69E	03	24	074226	75S	65S	52S	39S	26S	13S	ON	13N	26N	39N	53N	65N
6769	12	2	F	40E	03	24	093716	75S	64S	52S	39S	26S	12S	ON	13N	27N	40N	53N	66N
6770	13	2	F	12E	03	24	113209	74S	63S	51S	38S	25S	12S	1N	14N	28N	41N	54N	66N
6771	1	2	F	17W	03	24	132705	74S	63S	50S	37S	24S	11S	2N	15N	28N	42N	55N	67N
6772	2	2	F	46W	03	24	152143	74S	63S	50S	37S	24S	11S	1N	15N	28N	41N	54N	67N
6773	3	2	F	74W	03	24	171607	74S	63S	51S	38S	25S	12S	1N	14N	27N	40N	53N	66N
6774	4	2	F	103W	03	24	191034	75S	64S	52S	39S	26S	12S	ON	13N	27N	40N	53N	66N
6775	5	2	F	132W	03	24	210504	75S	64S	52S	39S	26S	13S	ON	13N	26N	39N	53N	65N
6776	6	2	F	160W	03	24	225936	75S	65S	52S	39S	26S	13S	ON	13N	26N	39N	52N	65N
6777	7	2	W	171E	03	25	005412	75S	65S	52S	40S	26S	13S	ON	12N	26N	39N	52N	65N
6778	8	2	W	142E	03	25	024851	75S	65S	52S	39S	26S	13S	ON	13N	26N	39N	52N	65N
6779	9	2	W	114E	03	25	044333	75S	65S	52S	39S	26S	13S	ON	13N	26N	39N	52N	65N
6780	10	2	W	85E	03	25	063818	75S	64S	52S	39S	26S	13S	ON	13N	26N	40N	53N	65N
6781	11	2	F	56E	03	25	083306	75S	64S	51S	39S	25S	12S	ON	14N	27N	40N	53N	66N
6782	12	2	F	28E	03	25	102757	74S	63S	51S	38S	25S	11S	1N	14N	28N	41N	54N	67N
6783	1	2	F	1W	03	25	122251	74S	63S	50S	37S	24S	11S	2N	15N	28N	42N	55N	67N
6784	2	2	F	30W	03	25	141728	74S	63S	50S	37S	24S	11S	1N	14N	28N	41N	54N	67N
6785	3	2	F	58W	03	25	161149	74S	64S	51S	38S	25S	12S	ON	14N	27N	40N	53N	66N
6786	4	2	F	87W	03	25	180614	75S	64S	52S	39S	26S	13S	ON	13N	26N	40N	53N	65N
6787	5	2	F	116W	03	25	200042	75S	65S	52S	39S	26S	13S	ON	12N	26N	39N	52N	65N
6788	6	2	F	144W	03	25	215512	76S	65S	53S	40S	27S	14S	ON	12N	25N	39N	52N	64N
6789	7	2	F	173W	03	25	234942	76S	65S	53S	40S	27S	14S	1S	12N	25N	38N	51N	64N
6790	8	2	W	158E	03	26	014419	76S	66S	53S	40S	27S	14S	1S	12N	25N	38N	51N	64N
6791	9	2	W	130E	03	26	033859	76S	66S	53S	40S	27S	14S	1S	12N	25N	38N	51N	64N
6792	10	2	W	101E	03	26	053342	76S	65S	53S	40S	27S	14S	ON	12N	25N	39N	52N	64N
6793	11	2	W	72E	03	26	072828	76S	65S	53S	40S	27S	13S	ON	12N	26N	39N	52N	65N
6794	12	2	F	44E	03	26	092316	75S	65S	52S	39S	26S	13S	ON	13N	26N	40N	53N	65N
6795	13	2	F	15E	03	26	111808	75S	64S	52S	39S	25S	12S	ON	14N	27N	40N	53N	66N
6796	1	2	F	14W	03	26	131303	74S	63S	51S	38S	25S	11S	1N	14N	28N	41N	54N	67N
6797	2	2	F	42W	03	26	150741	74S	63S	51S	38S	25S	12S	1N	14N	27N	40N	54N	66N
6798	3	2	F	71W	03	26	170205	75S	64S	52S	39S	26S	12S	ON	13N	27N	40N	53N	65N
6800	5	2	F	128W	03	26	205101	75S	65S	53S	40S	27S	13S	ON	12N	26N	39N	52N	65N
6801	6	2	F	157W	03	26	224534	76S	65S	53S	40S	27S	14S	ON	12N	25N	39N	52N	64N
6802	7	2	W	174E	03	27	004010	76S	65S	53S	40S	27S	14S	1S	12N	25N	38N	52N	64N
6803	8	2	W	146E	03	27	023449	76S	65S	53S	40S	27S	14S	1S	12N	25N	39N	52N	64N
6804	9	2	W	117E	03	27	042931	76S	65S	53S	40S	27S	14S	ON	12N	25N	39N	52N	65N
6805	10	2	W	88E	03	27	062416	75S	65S	53S	40S	27S	13S	ON	12N	26N	39N	52N	65N
6806	11	2	F	54E	03	27	081904	77S	66S	54S	41S	28S	14S	1S	12N	25N	38N	52N	65N
6807	12	2	F	25E	03	27	101355	75S	65S	53S	40S	27S	14S	ON	13N	26N	39N	53N	65N
6808	13	2	F	2E	03	27	120849	76S	64S	52S	39S	26S	13S	ON	14N	27N	40N	63N	64N
6809	1	2	F	30W	03	27	140326	75S	64S	52S	39S	26S	13S	ON	14N	26N	39N	53N	65N
6810	2	2	F	61W	03	27	155747	75S	64S	53S	40S	28S	14S	1N	12N	25N	39N	52N	64N
6811	3	2	F	88W	03	27	175212	76S	66S	54S	40S	28S	15S	2S	12N	25N	37N	51N	64N
6812	4	2	F	115W	03	27	194640	76S	66S	54S	40S	28S	15S	2S	11N	24N	27N	51N	63N
6813	5	2	F	145W	03	27	214110	77S	67S	54S	42S	29S	16S	3S	11N	24N	27N	50N	63N
6814	6	2	W	173W	03	27	233542	77S	67S	54S	42S	29S	16S	3S	10N	24N	37N	50N	63N
6815	7	2	W	162E	03	28	013018	77S	67S	55S	42S	29S	16S	3S	10N	24N	37N	50N	63N
6816	8	2	W	130E	03	28	032457	77S	67S	55S	42S	29S	16S	3S	10N	27N	37N	50N	63N
6817	9	2	W	99E	03	28	051940	77S	67S	55S	42S	29S	16S	3S	10N	26N	38N	50N	63N
6818	10	2	W	73E	03	28	071425	77S	67S	55S	42S	29S	16S	2S	11N	26N	38N	51N	63N
6819	11	2	W	44E	03	28	090914	76S	66S	54S	41S	28S	15S	2S	11N	25N	38N	51N	64N
6820	12	2	F	14E	03	28	110405	76S	66S	54S	40S	28S	14S	1S	12N	25N	38N	51N	65N
6821	1	2	F	15W	03	28	125900	75S	65S	52S	39S	26S	13S	ON	13N	25N	40N	52N	66N
6822	2	2	F	43W	03	28	145337	75S	65S	53S	40S	27S	14S	1N	12N	25N	39N	52N	65N
6823	3	2	F	71W	03	28	164801	76S	66S	53S	40S	27S	14S	2S	12N	25N	38N	51N	64N
6824	4	2	F	100W	03	28	184228	76S	66S	54S	41S	28S	15S	2S	11N	24N	37N	51N	64N
6825	5	2	F	131W	03	28	203658	77S	67S	54S	42S	28S	15S	2S	11N	24N	37N	50N	63N
6826	6	2	F	158W	03	28	223131	77S	67S	54S	42S	28S	15S	3S	11N	24N	37N	50N	63N
6827	7	2	W	174E	03	29	002606	77S	67S	55S	42S	29S	16S	3S	10N	24N	37N	50N	63N
6828	8	2	W	145E	03	29	022045	77S	67S	55S	42S	29S	16S	3S	10N	24N	37N	50N	63N
6829	9	2	W	113E	03	29	041527	77S	67S	55S	41S	28S	15S	3S	11N	24N	37N	50N	63N
6830	10	2	W	87E	03	29	061012	77S	67S	54S	41S	28S	15S	3S	11N	24N	37N	51N	64N
6831	11	2	F	59E	03	29	080500	77S	66S	54S	41S	28S	15S	2S	12N	25N	38N	51N	64N
6832	12	2	F	30E	03	29	095951	77S	65S	53S	40S	27S	14S	1S	12N	25N	39N	52N	65N
6833	13	2	F	0E	03	29	115445	75S	65S	53S	39S	26S	13S	ON	13N	26N	39N	53N	66N
6834	1	2	F	28W	03	29	134922	76S	65S	53S	40S	27S	14S	1S	12N	25N	38N	52N	65N
6835	2	2	F	56W	03	29	154343	76S	66S	54S	41S	28S	14S	1S	12N	24N	37N	51N	63N
6836	3	2	F	84W	03	29	173808	77S	67S	54S	41S	28S	14S	3S	11N	24N	37N	51N	63N
6837	4	2	F	113W	03	29	193236	77S	67S	55S	41S	29S	14S	3S	11N	23N	37N	50N	63N

PASS	TRACK	C	S	ALON	MO	DA	HRMNS	SUB-SATELLITE POINT PICTURE LOCATION										LAT	LAT
								LAT	LAT	LAT	LAT	LAT	LAT	LAT	LAT	LAT	LAT		
6838	5	2	F	141W	03	29	212706	78S	68S	55S	43S	30S	17S	4S	9N	23N	36N	49N	63N
6839	6	2		170W	03	30	232100	78S	68S	55S	43S	30S	17S	4S	9N	23N	36N	49N	63N
6840	7	2		162E	03	30	011600	78S	68S	54S	43S	30S	17S	3S	10N	23N	36N	49N	63N
6841	8	2		131E	03	30	031000	78S	68S	54S	43S	30S	17S	4S	10N	23N	36N	49N	63N
6842	9	2		105E	03	30	050500	78S	68S	55S	43S	30S	17S	3S	10N	23N	36N	49N	63N
6843	10	2		57E	03	30	065900	78S	68S	55S	43S	29S	16S	3S	10N	23N	36N	49N	63N
6844	11	2		47E	03	30	085300	77S	67S	55S	43S	28S	15S	4S	10N	23N	37N	50N	63N
6845	12	2		18E	03	30	104800	77S	67S	54S	41S	28S	15S	3S	11N	24N	37N	51N	64N
6846	1	2		8W	03	30	124300	76S	66S	53S	41S	28S	15S	2S	12N	25N	38N	52N	64N
6847	2	2		39W	03	30	143800	77S	66S	54S	41S	28S	15S	2S	11N	24N	38N	52N	64N
6848	3	2		68W	03	30	163900	77S	67S	55S	42S	29S	16S	3S	10N	24N	37N	50N	63N
6849	4	2		97W	03	30	182700	78S	68S	55S	43S	29S	16S	3S	10N	23N	36N	49N	63N
6850	5	2		125W	03	30	202100	78S	68S	55S	43S	30S	17S	4S	9S	23N	36N	49N	62N
6851	6	2		149W	00	00	221600	78S	68S	56S	43S	30S	17S	4S	9N	23N	36N	49N	63N
6852	7	2		177E	03	31	001000	78S	68S	56S	43S	30S	17S	4S	9N	22N	36N	49N	63N
6853	8	2		151E	03	31	020500	78S	68S	56S	43S	30S	17S	4S	9N	22N	36N	49N	62N
6854	9	2		120E	03	31	040000	78S	68S	56S	43S	30S	17S	4S	9N	23N	39N	50N	62N
6855	10	2		92E	03	31	055500	78S	68S	56S	43S	30S	17S	4S	9N	23N	36N	50N	63N
6856	11	2		63E	03	31	074900	77S	67S	55S	42S	29S	16S	3S	10N	24N	37N	50N	64N
6857	12	2		37E	03	31	094400	77S	67S	55S	43S	28S	15S	4S	10N	23N	37N	50N	63N
6858	13	2		5E	03	31	113800	77S	66S	54S	41S	28S	15S	2S	11N	25N	38N	52N	64N
6859	1	2		24W	03	31	133300	77S	67S	54S	41S	28S	15S	2S	11N	25N	38N	51N	64N
6860	2	2		52W	03	31	152800	77S	67S	55S	42S	29S	15S	3S	10N	24N	36N	50N	63N
6861	3	2	F	77W	03	31	172355	76S	67S	54S	42S	28S	15S	2S	10N	24N	37N	50N	63N
6862	4	2		109W	03	31	191700	78S	68S	56S	43S	30S	17S	4S	9N	22N	36N	49N	62N
6863	5	2		137W	03	31	211200	79S	69S	56S	44S	31S	18S	5S	8N	22N	35N	48N	62N
6864	6	2		164W	03	31	230700	79S	69S	56S	44S	31S	18S	5S	8N	21N	34N	48N	61N

TABLE 1

TRACK TABLE FOR ESSA 3

<u>Range of Ascending Nodes</u>	<u>Track No.</u>
0 - 28.7W	1
28.7W - 57.4W	2
57.4W - 86.1W	3
86.1W - 114.8W	4
114.8W - 143.5W	5
143.5W - 172.2W	6
172.2W - 159.1E	7
159.1E - 130.4E	8
130.4E - 101.7E	9
101.7E - 73.0E	10
73.0E - 44.3E	11
44.3E - 15.6E	12
15.6E - 0	13

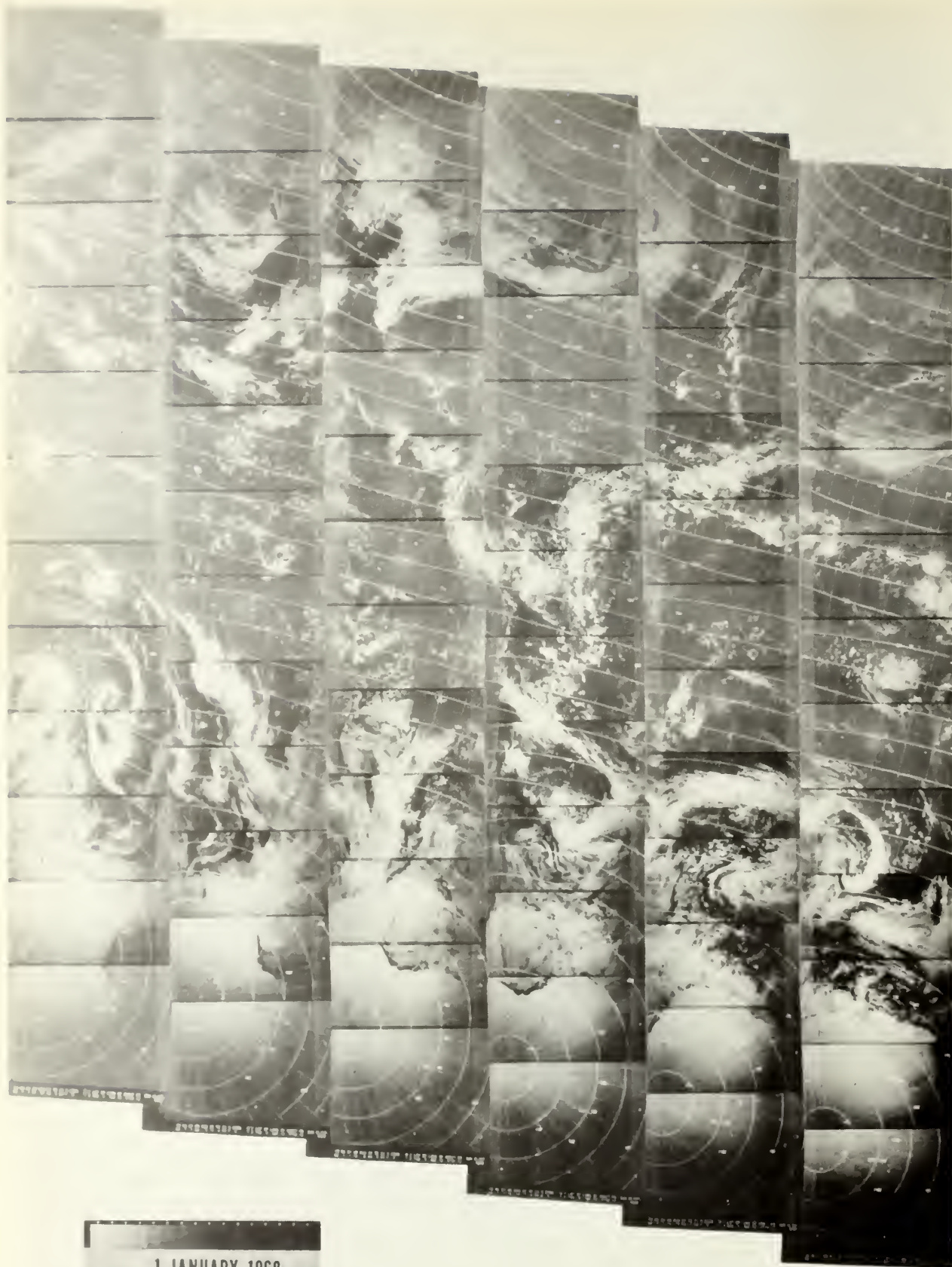
Difference between Tracks - 28.7°

TABLE 2

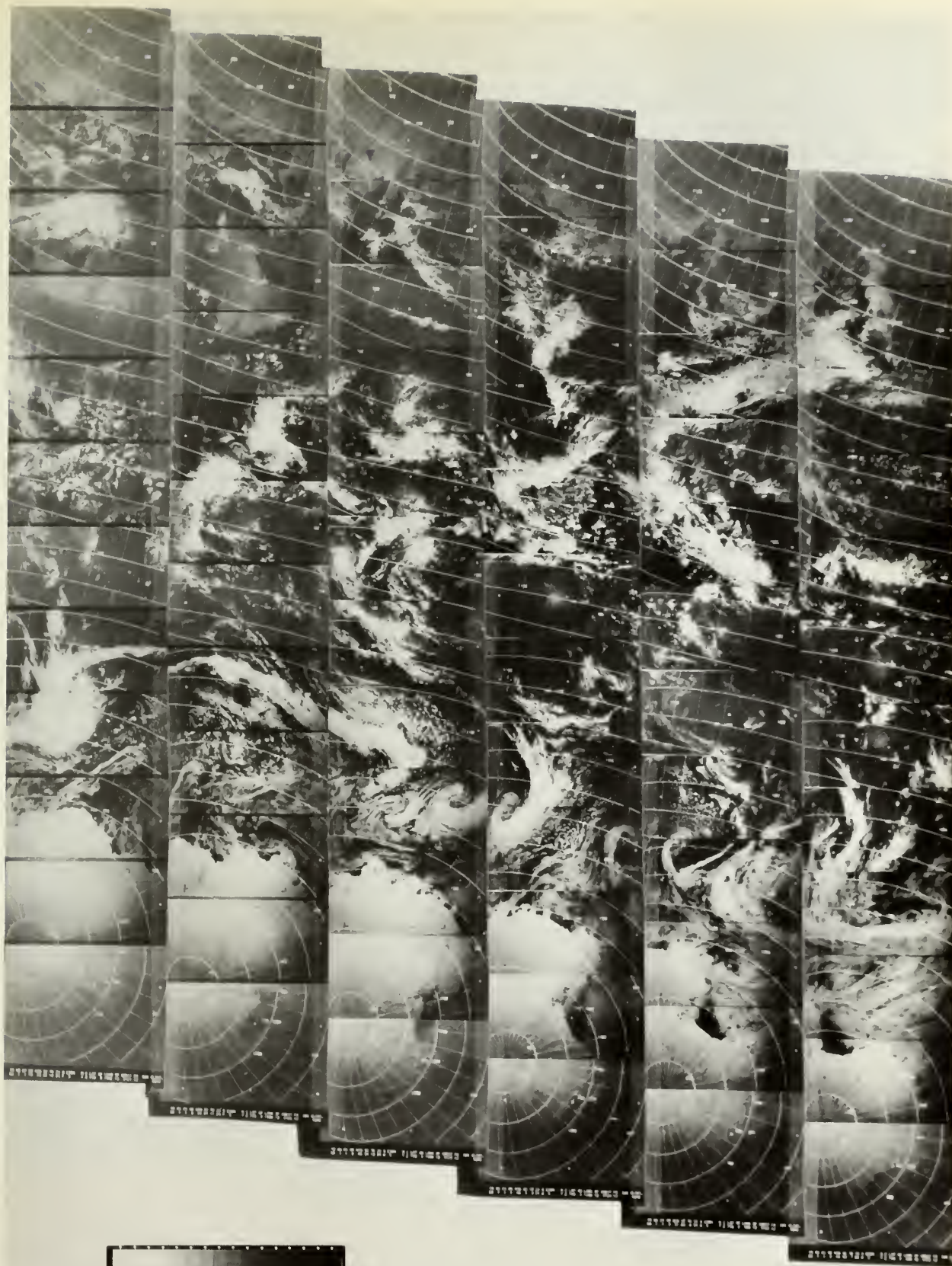
TRACK TABLE FOR ESSA 5

<u>Range of Ascending Nodes</u>	<u>Track No.</u>
0 - 28.4W	1
28.4W - 56.8W	2
56.8W - 85.2W	3
85.2W - 113.6W	4
113.6W - 142.0W	5
142.0W - 170.4W	6
170.4W - 161.2E	7
161.2E - 132.8E	8
132.8E - 104.4E	9
104.4E - 76.0E	10
76.0E - 47.6E	11
47.6E - 19.2E	12
19.2E - 0	13

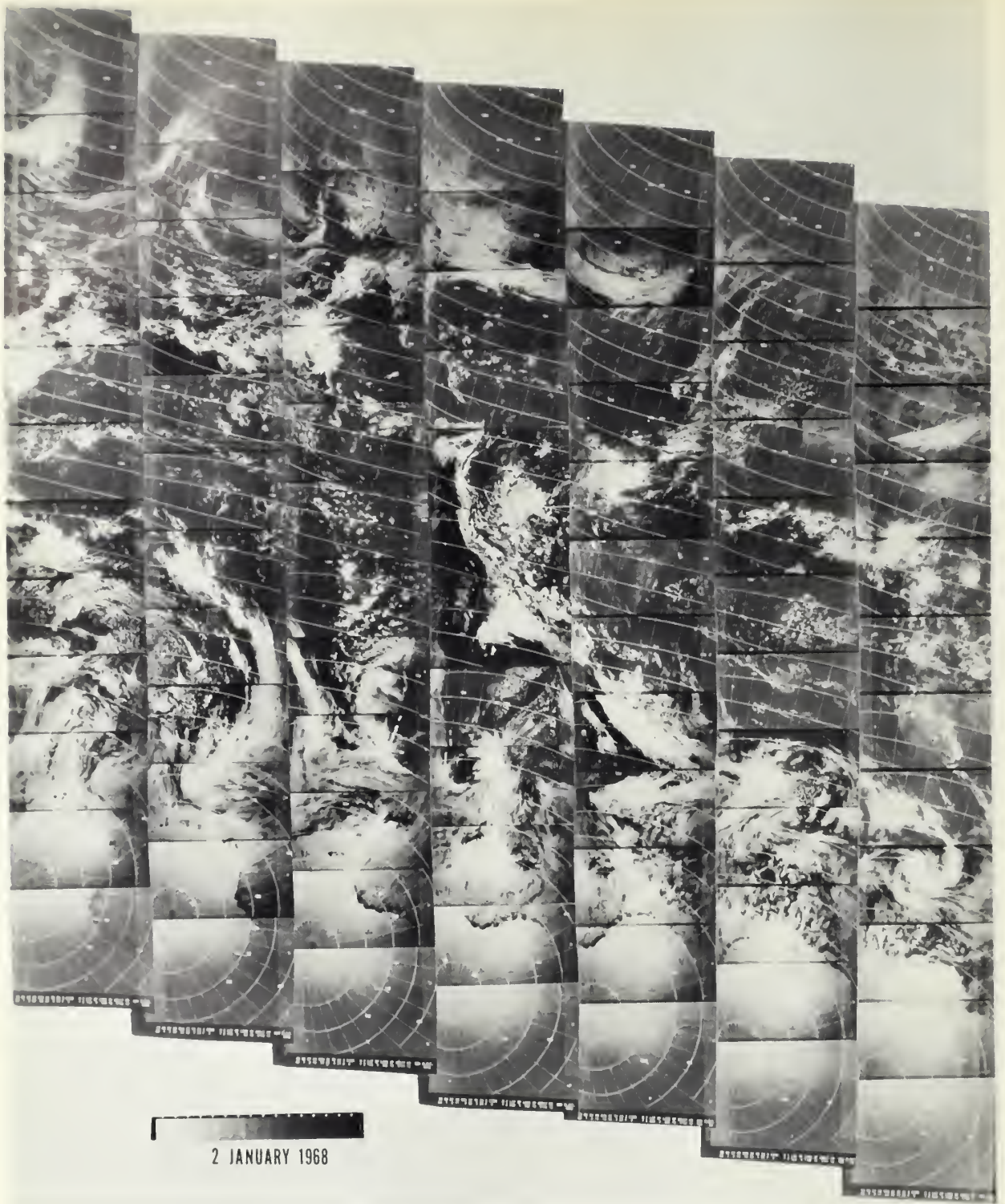
Difference between Tracks - 28.4°



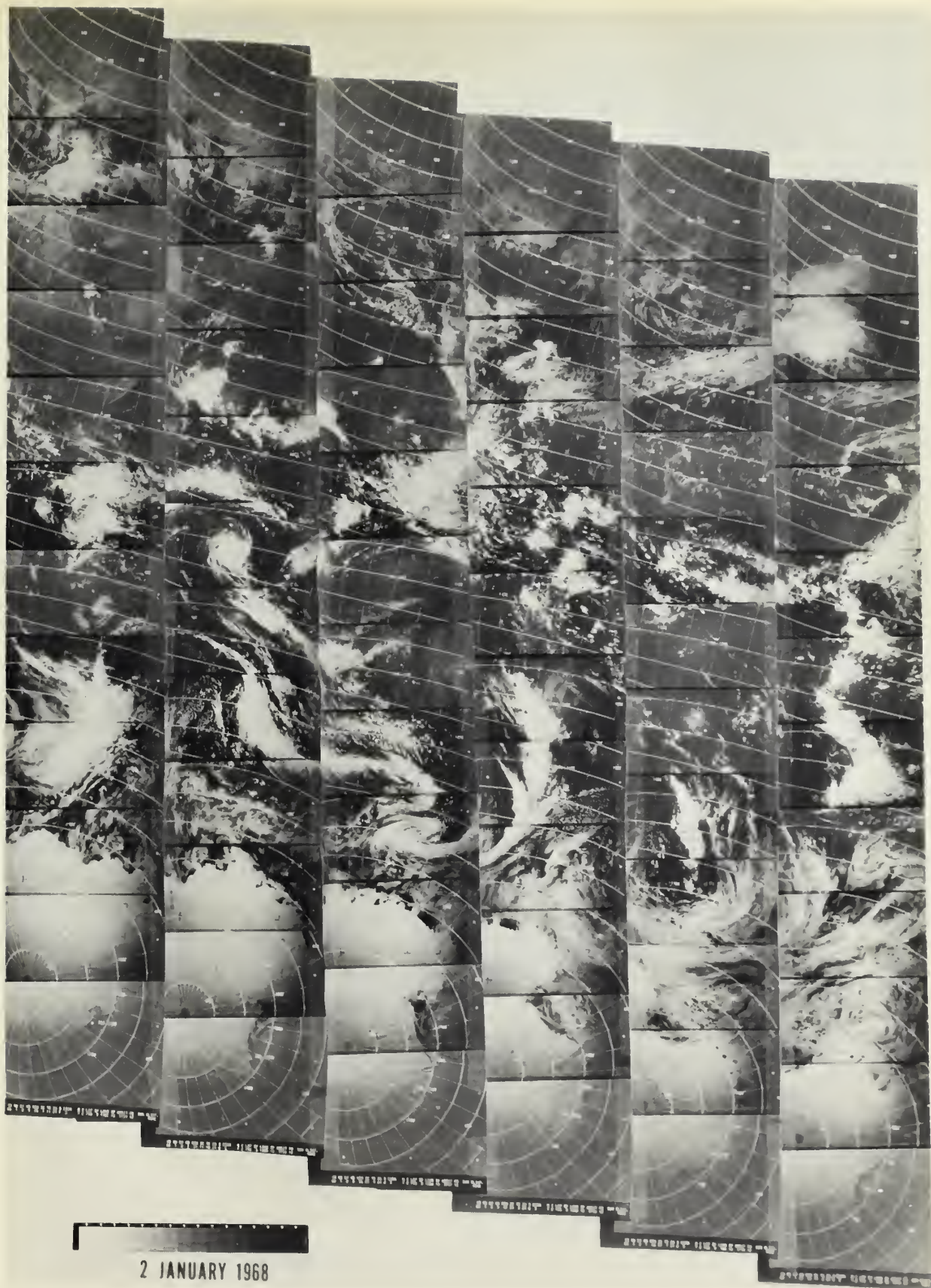
1 JANUARY 1968

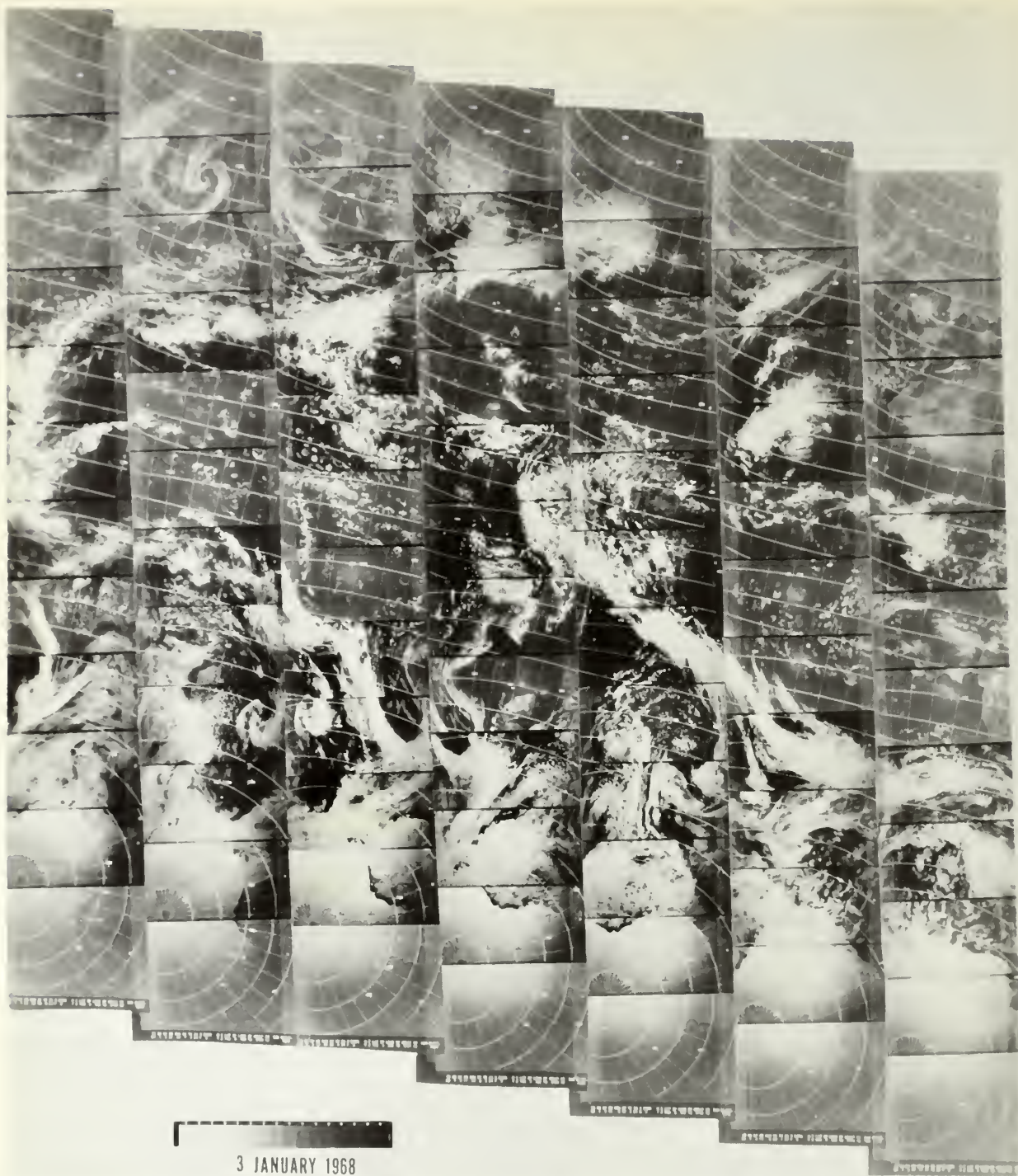


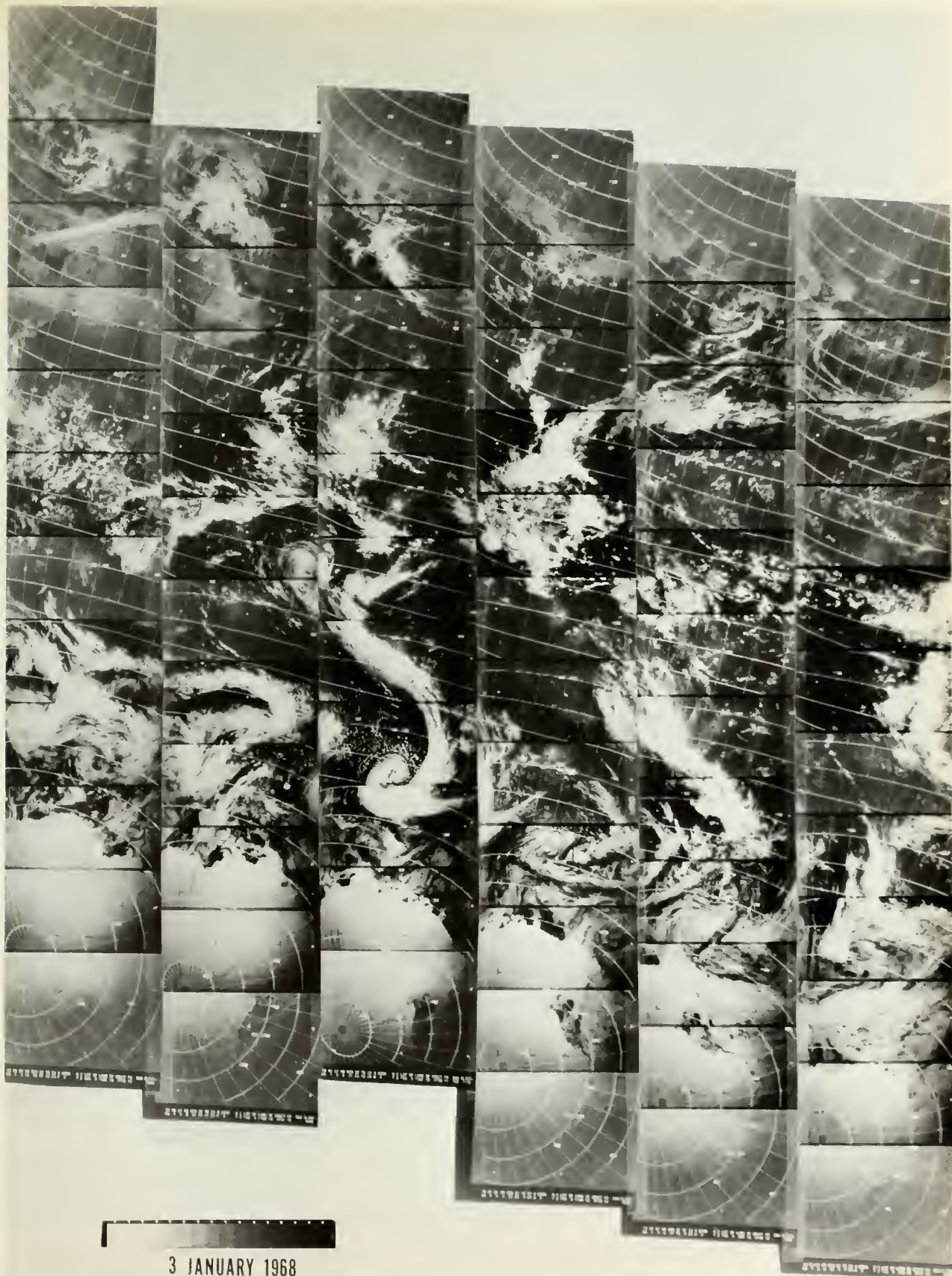
1 JANUARY 1968

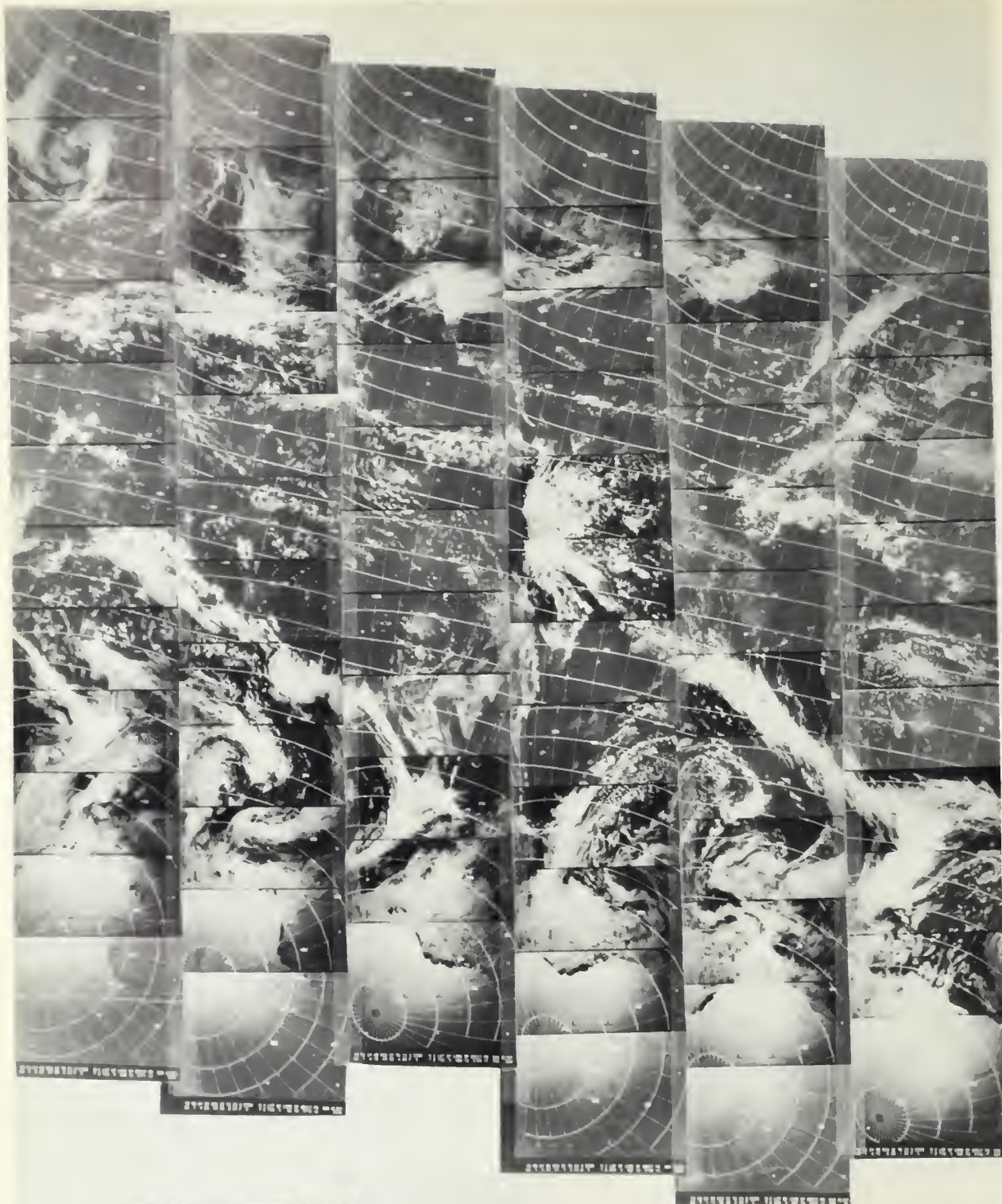


2 JANUARY 1968

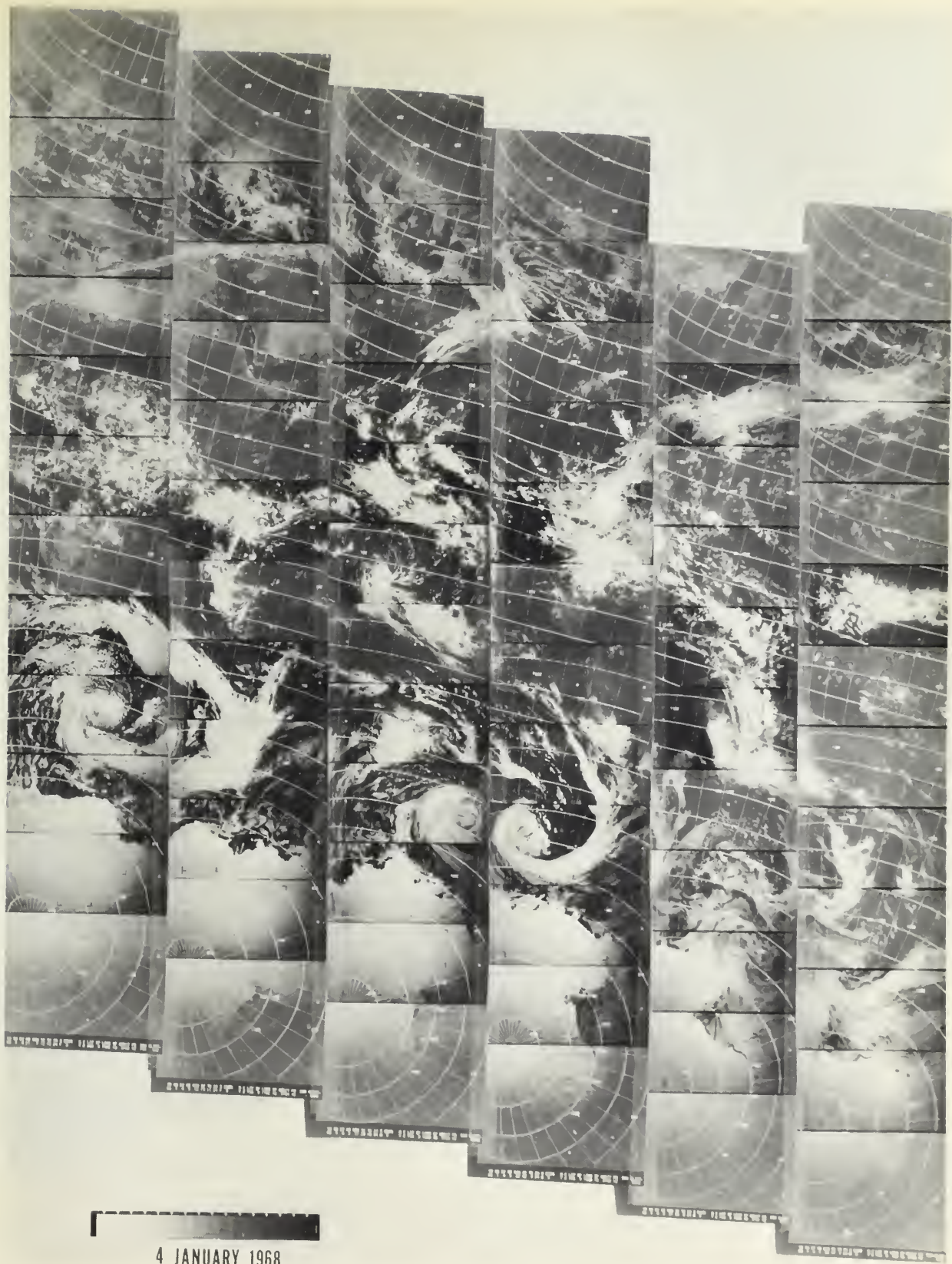




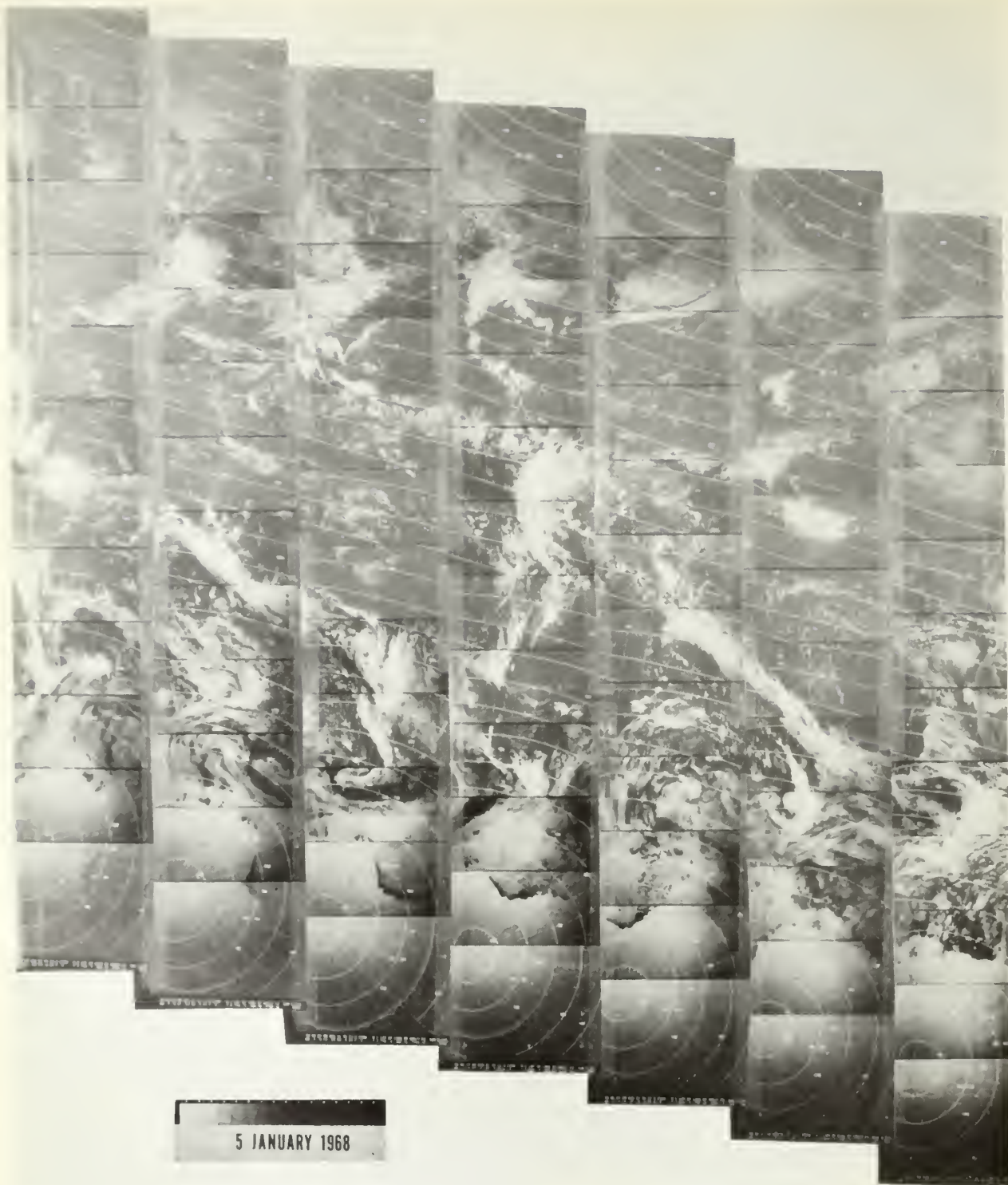




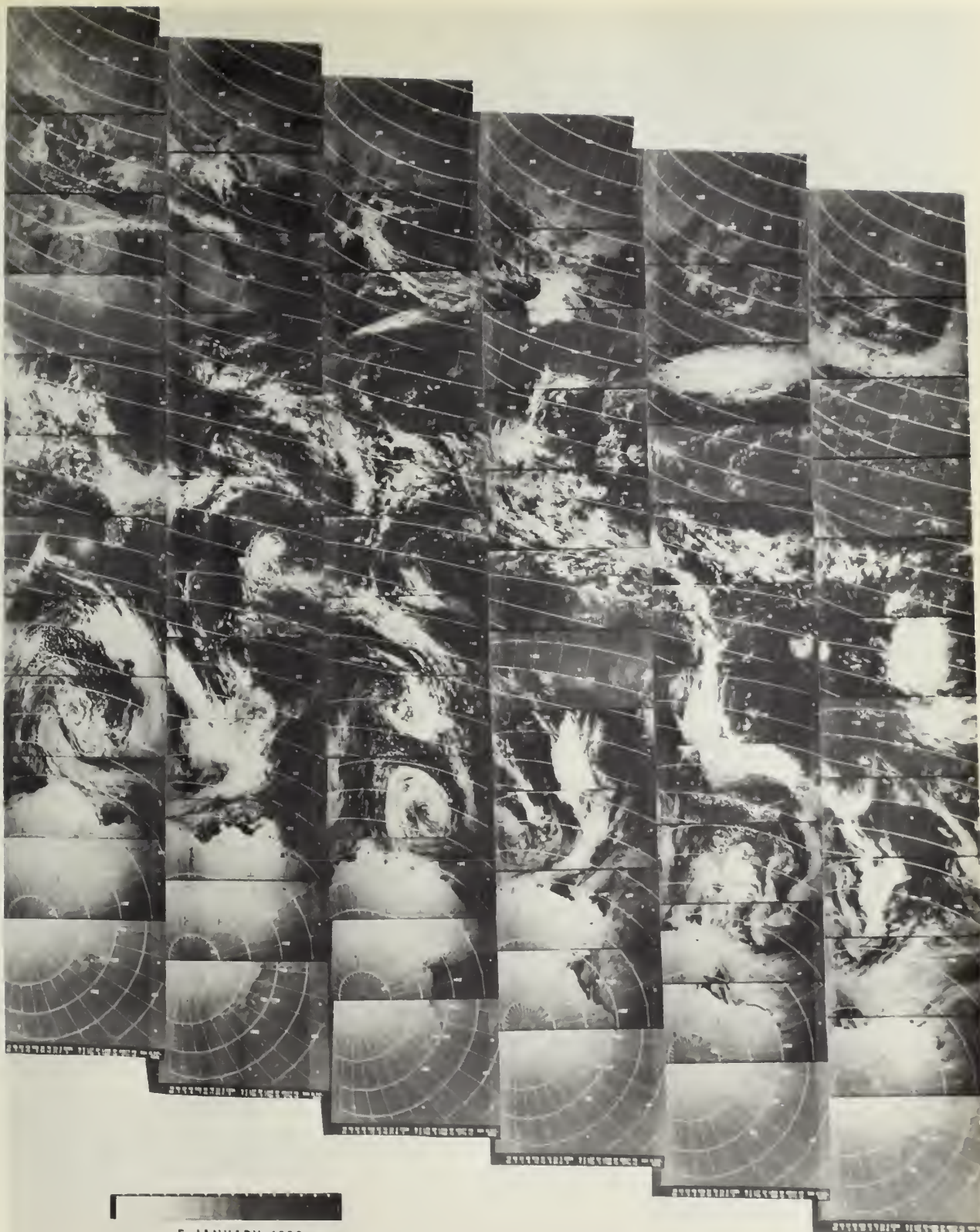
4 JANUARY 1968



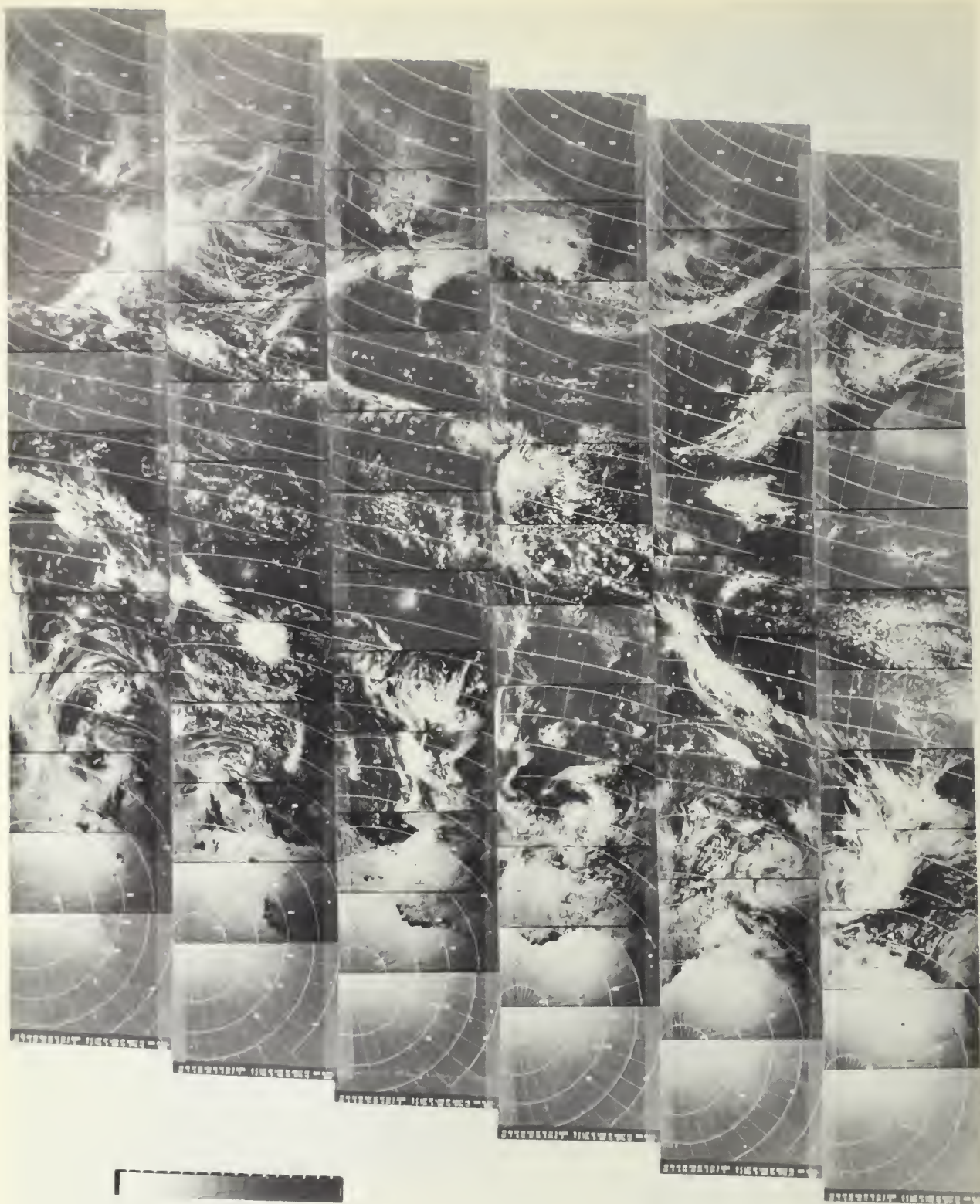
4 JANUARY 1968



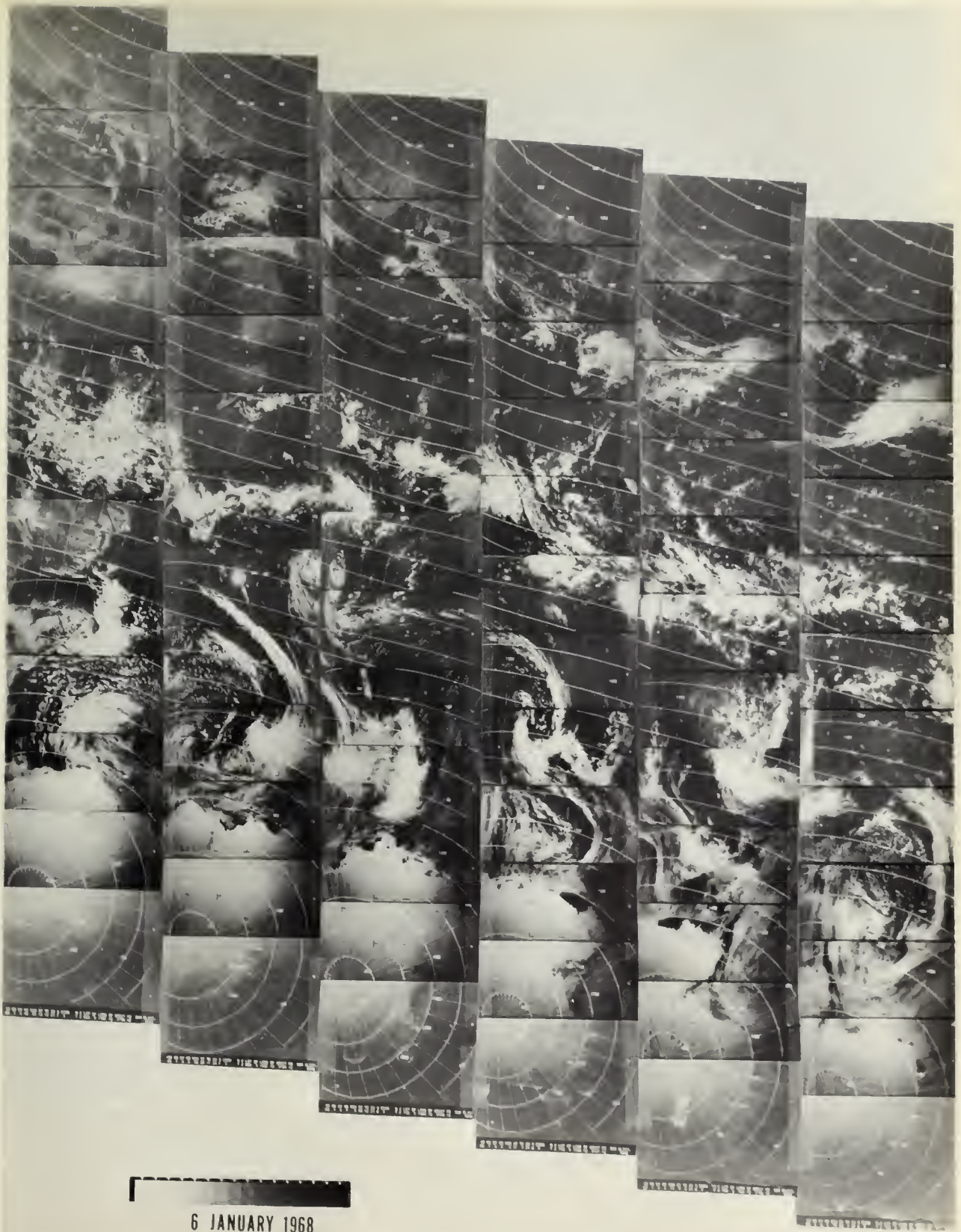
5 JANUARY 1968



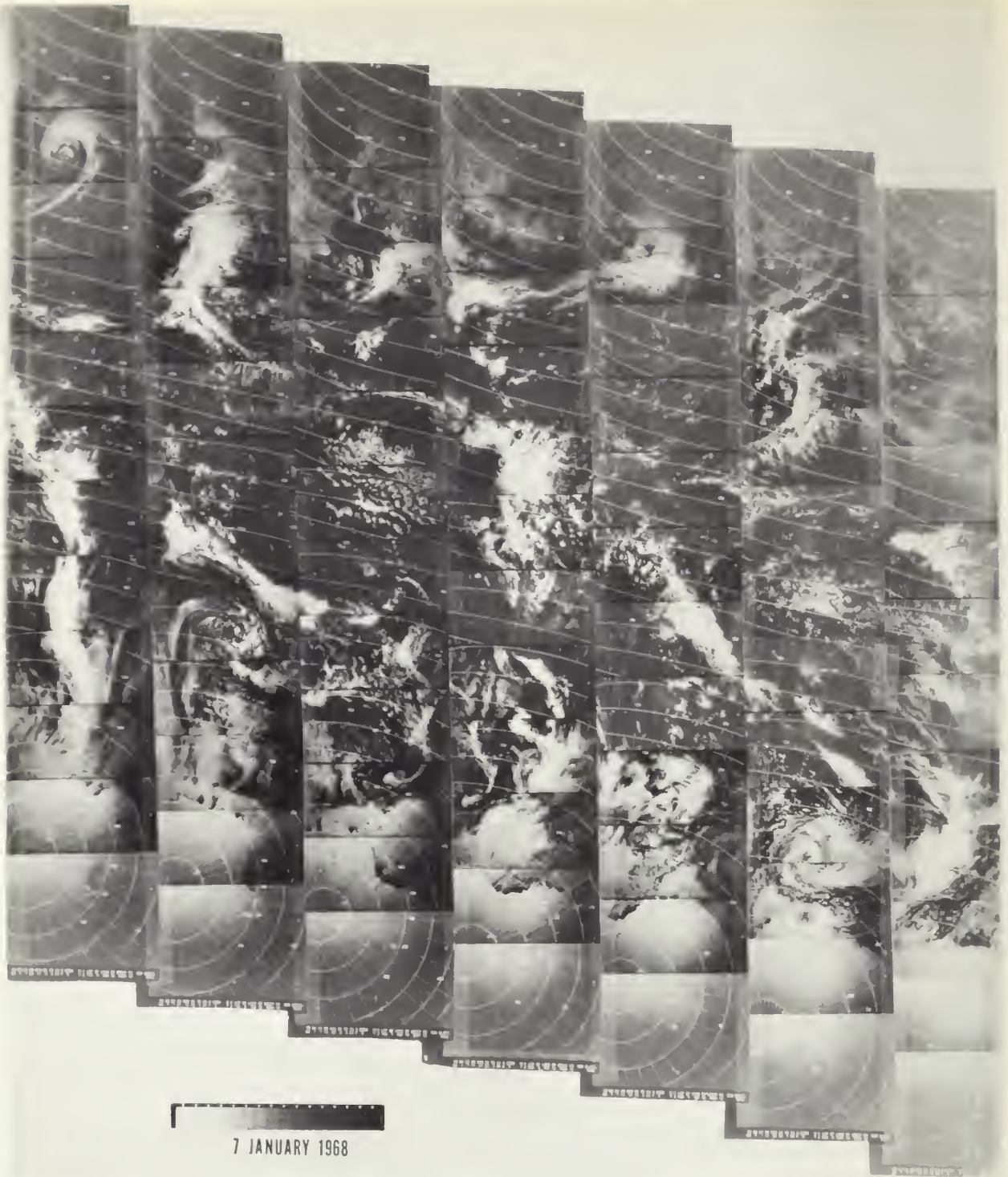
5 JANUARY 1968

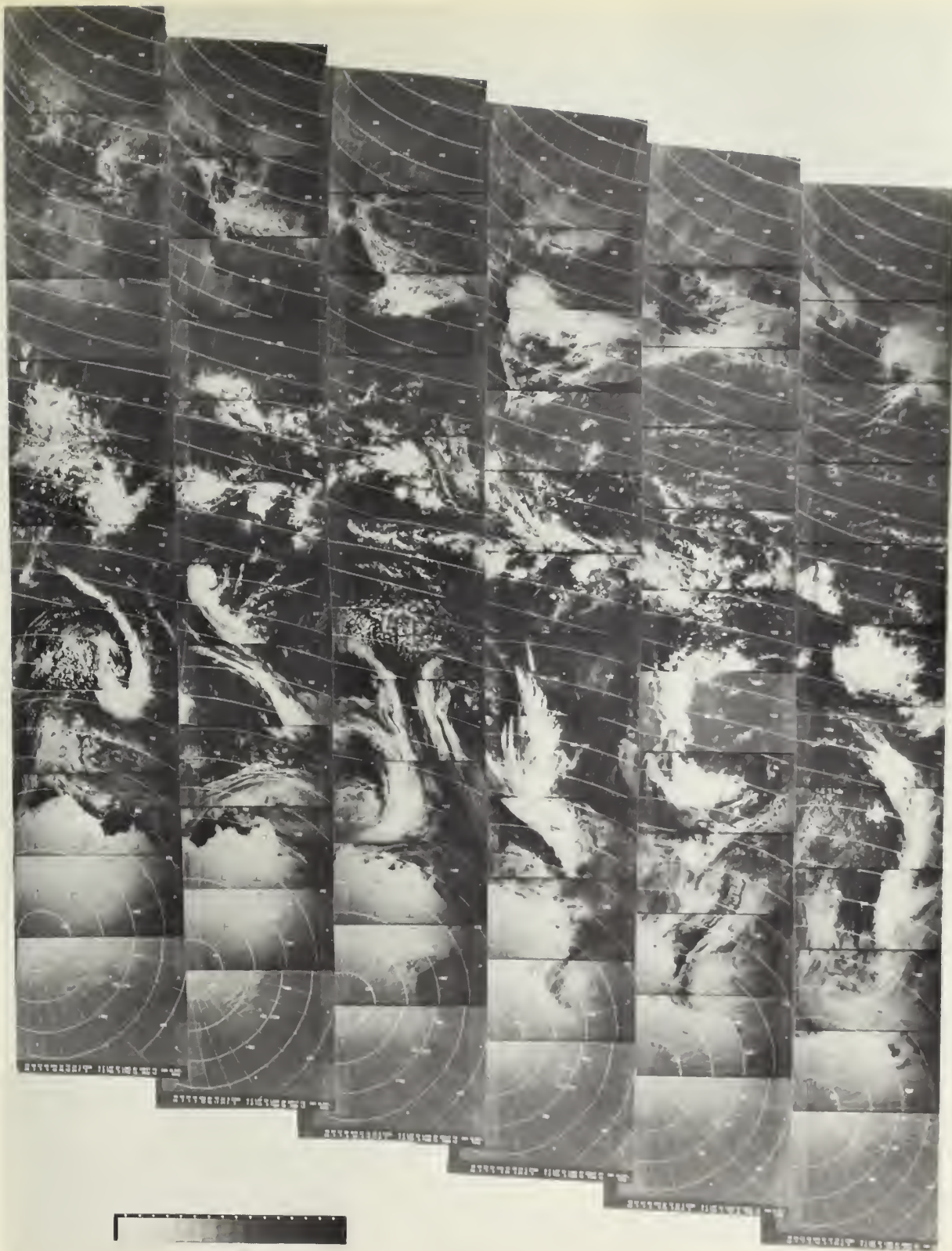


6 JANUARY 1968

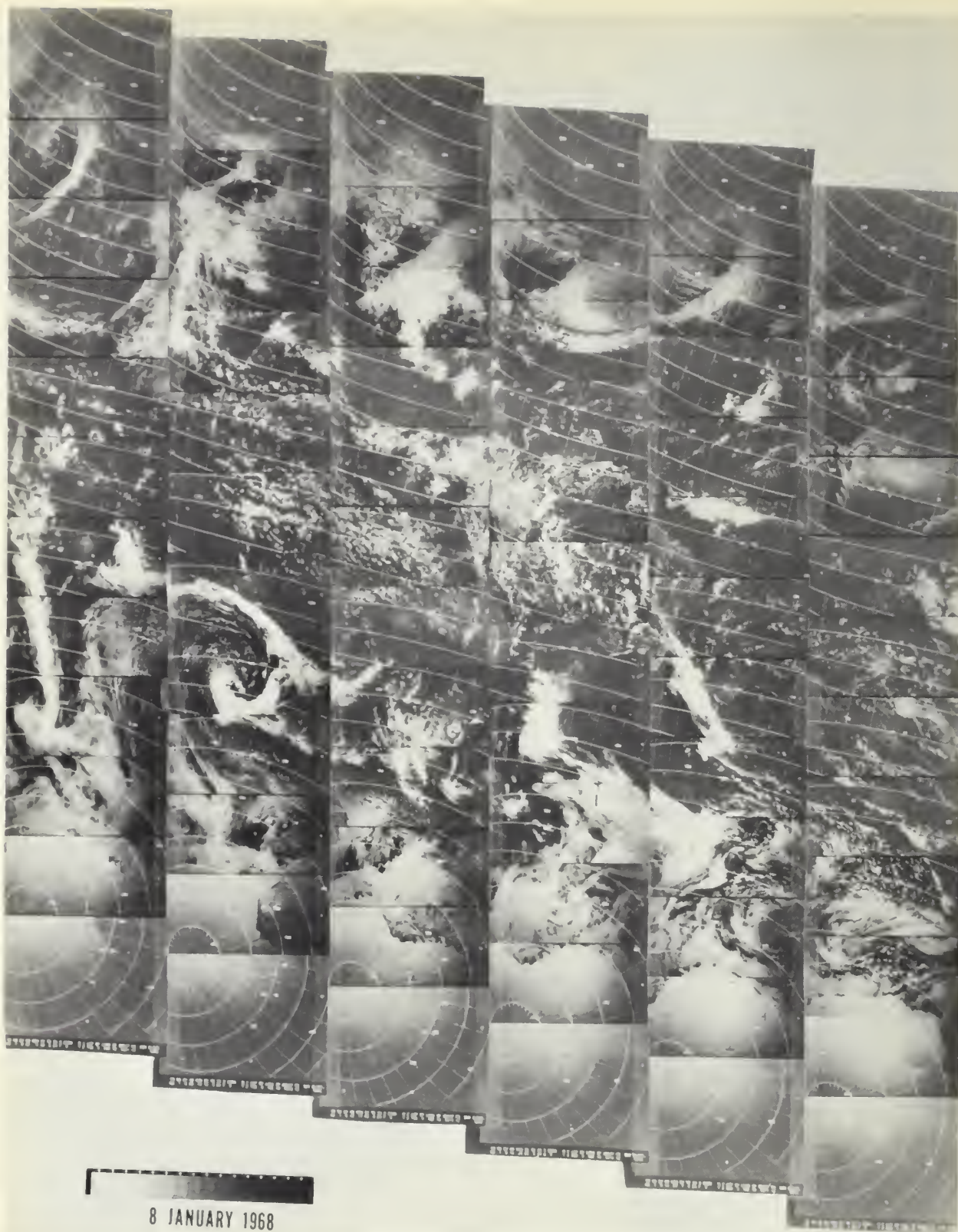


6 JANUARY 1968

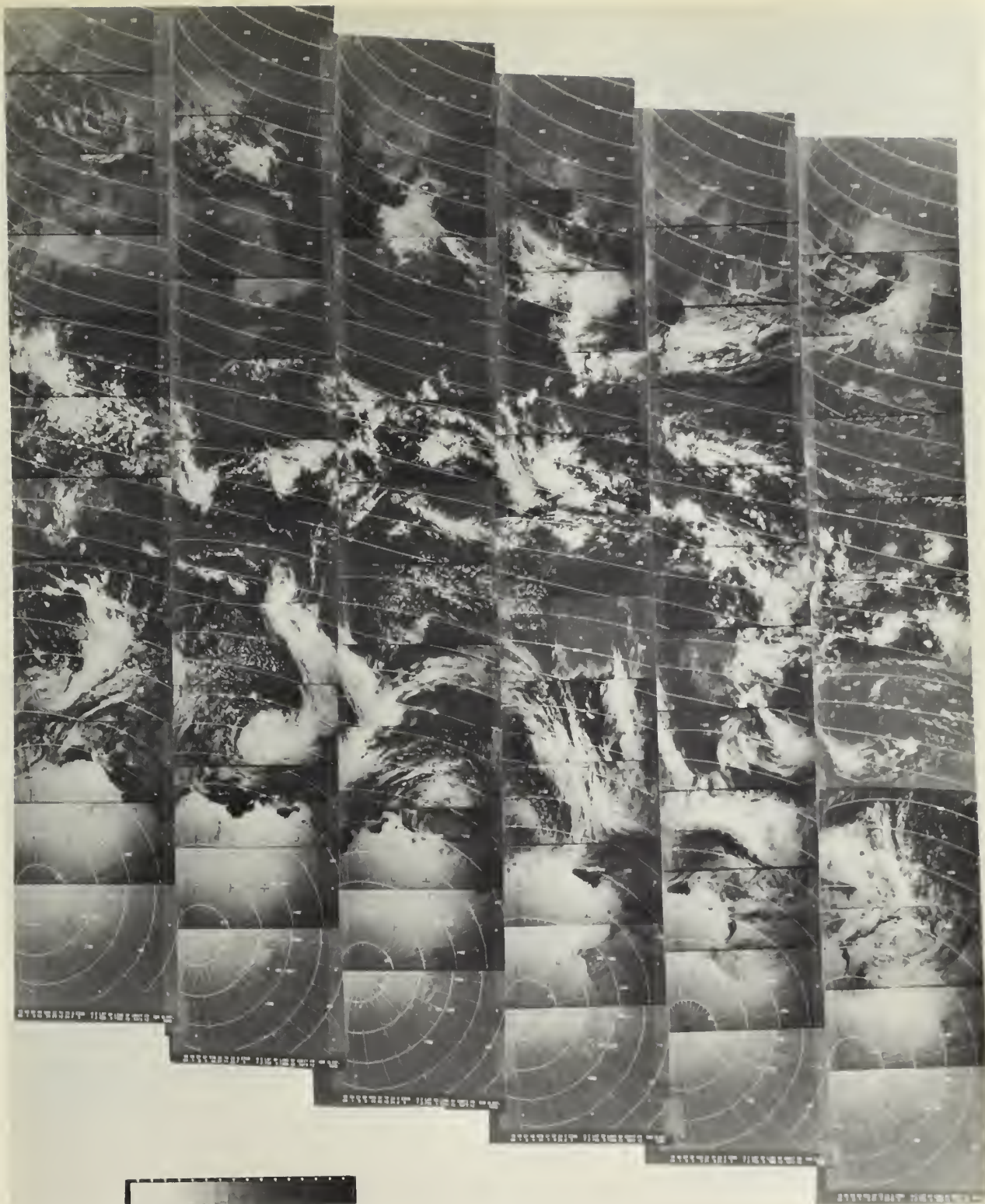




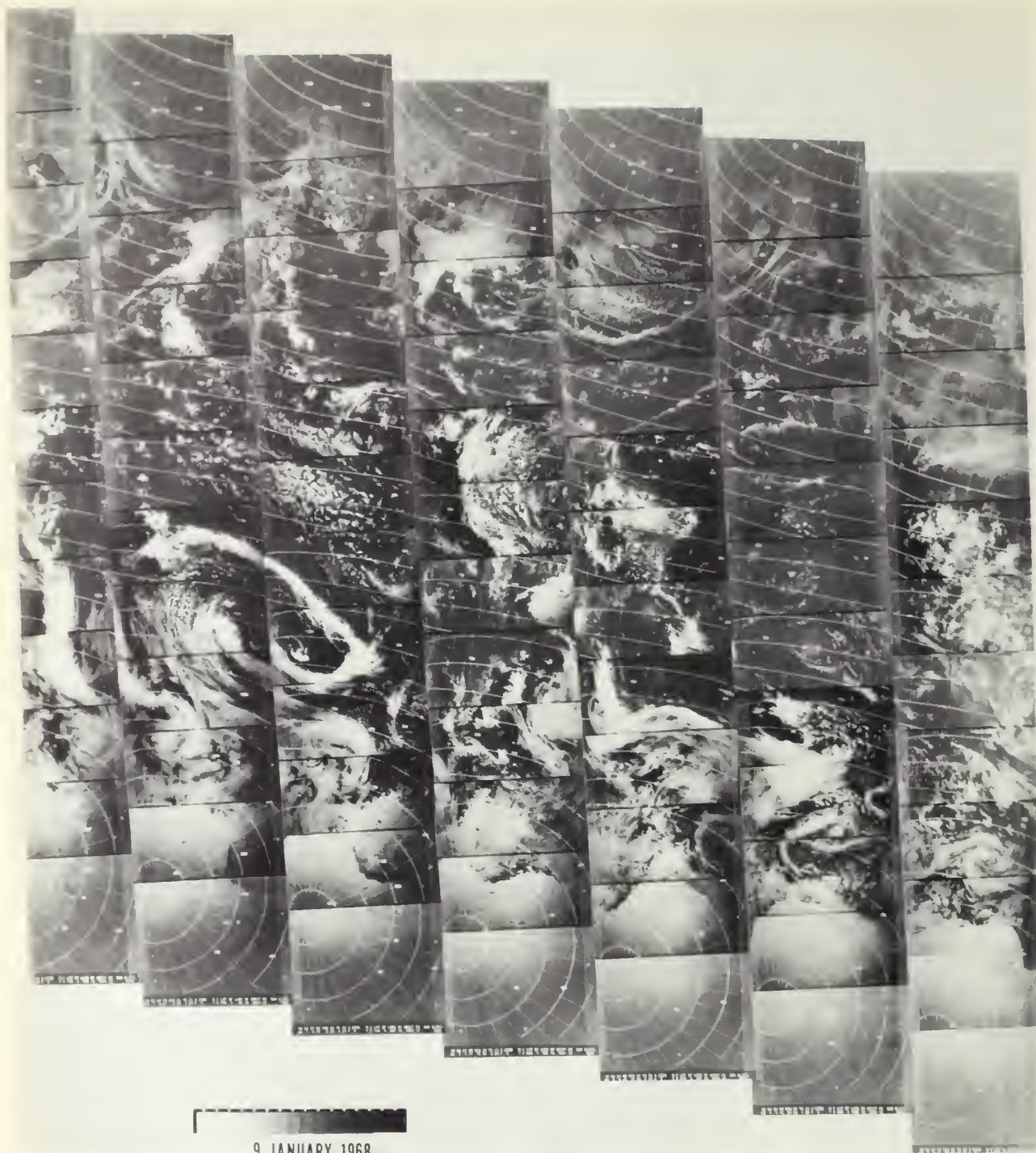
7 JANUARY 1968

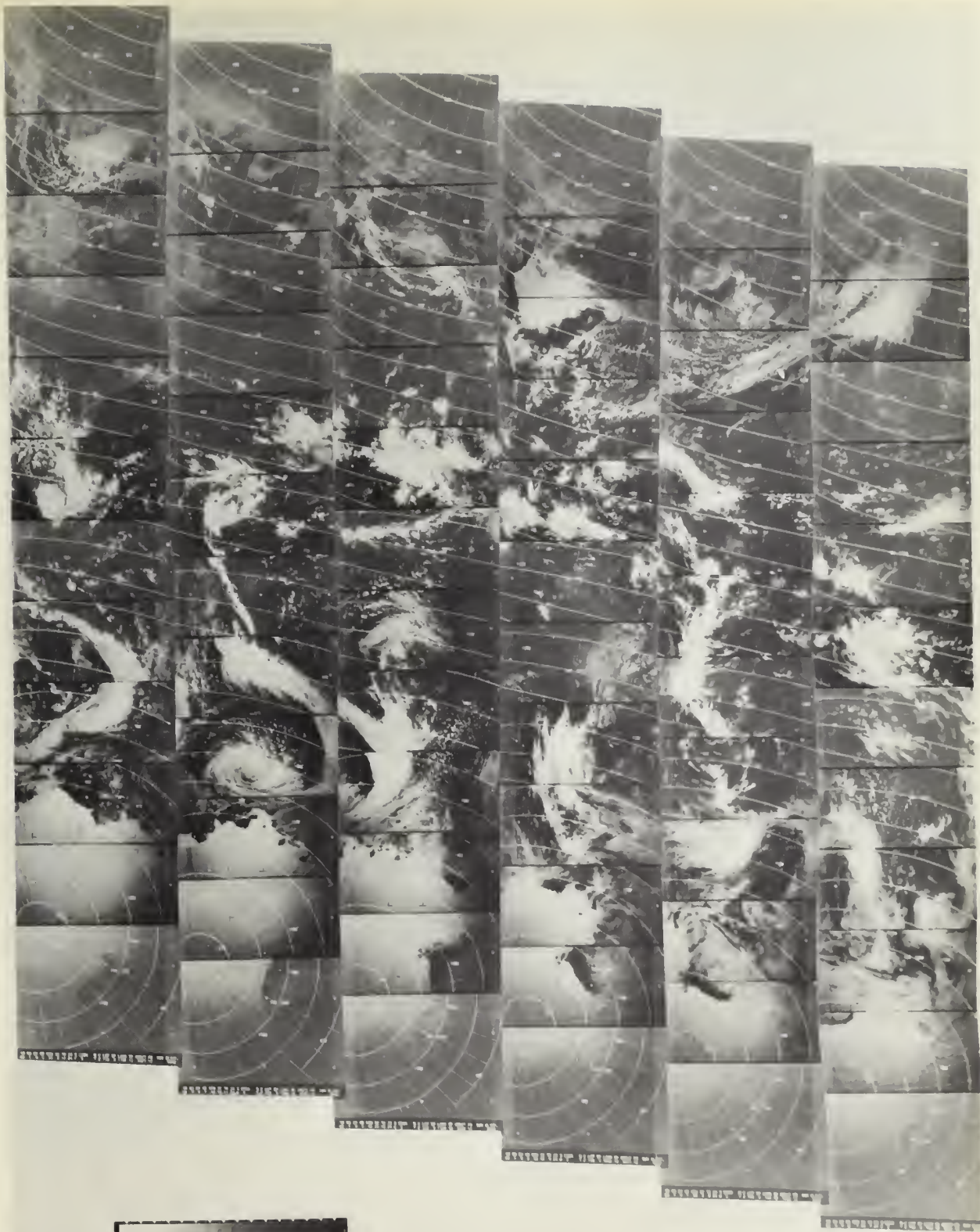


8 JANUARY 1968

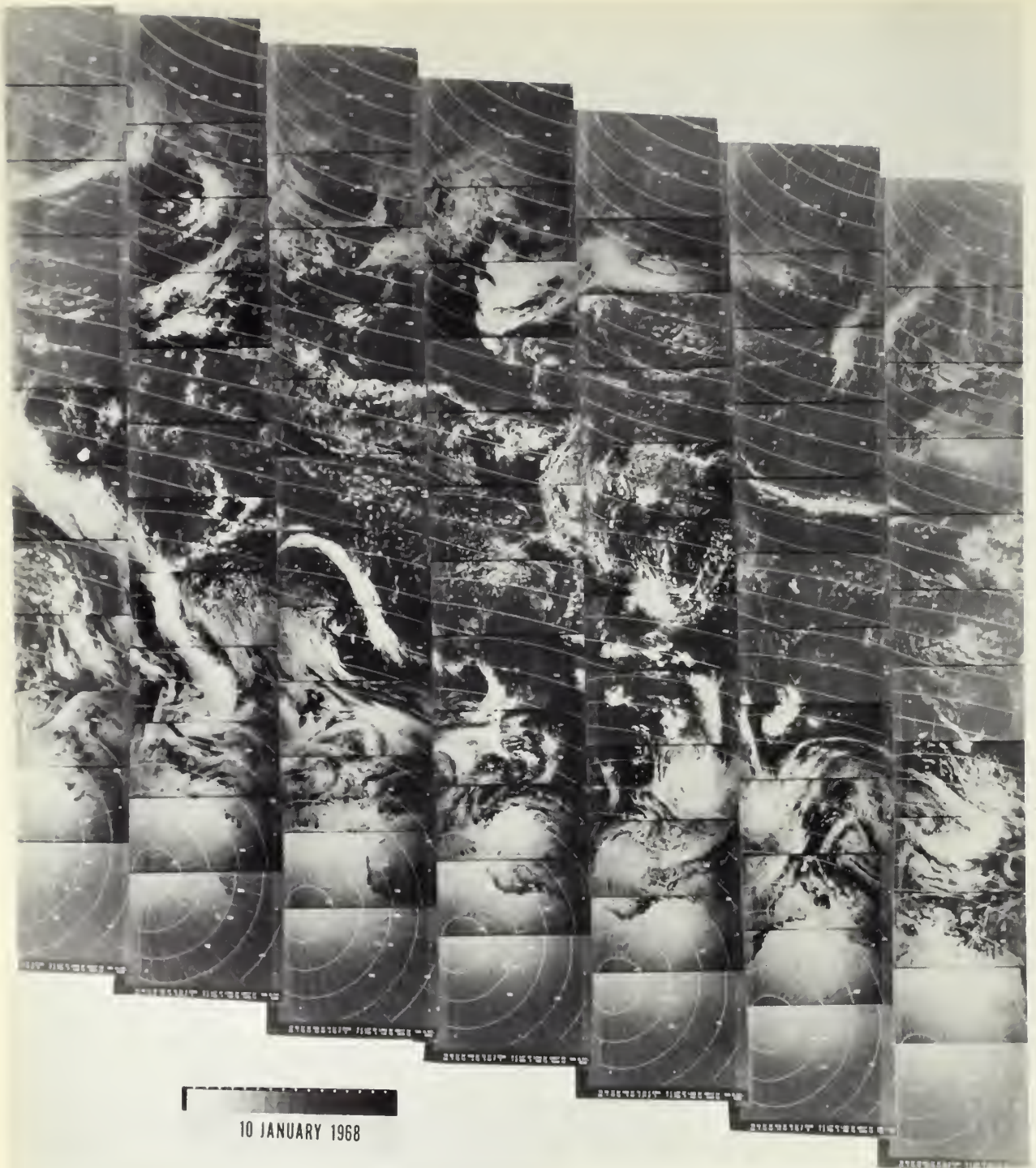


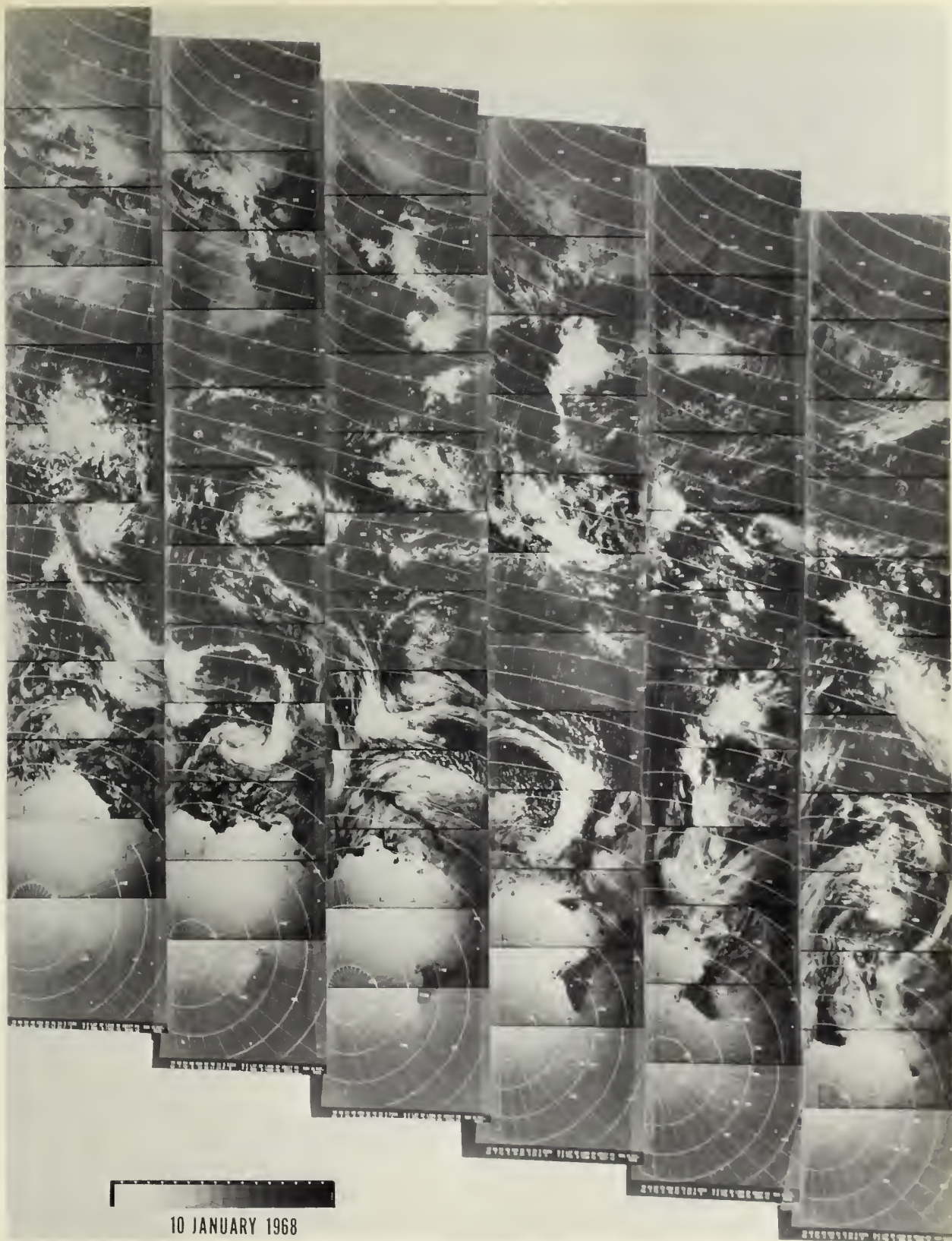
8 JANUARY 1968



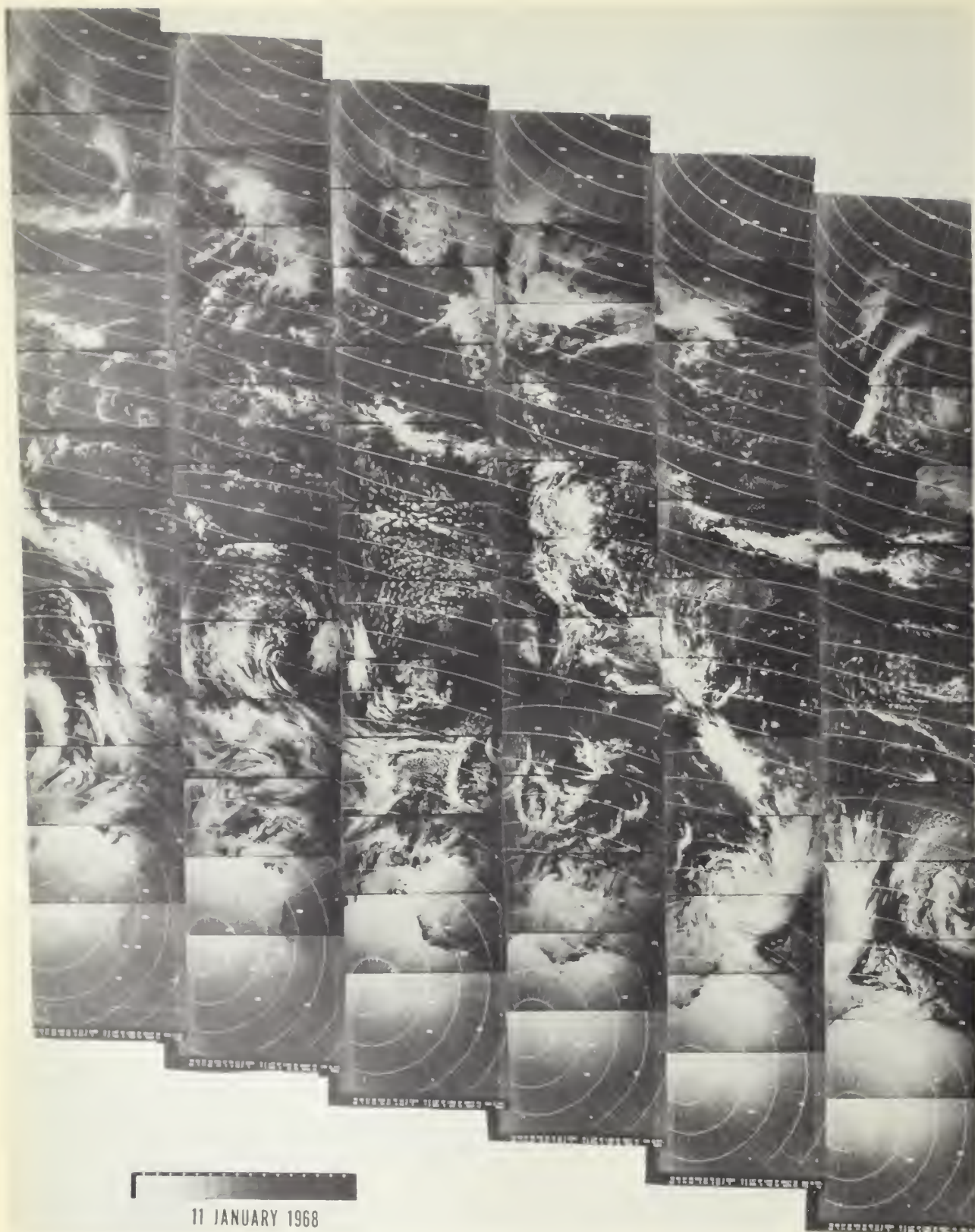


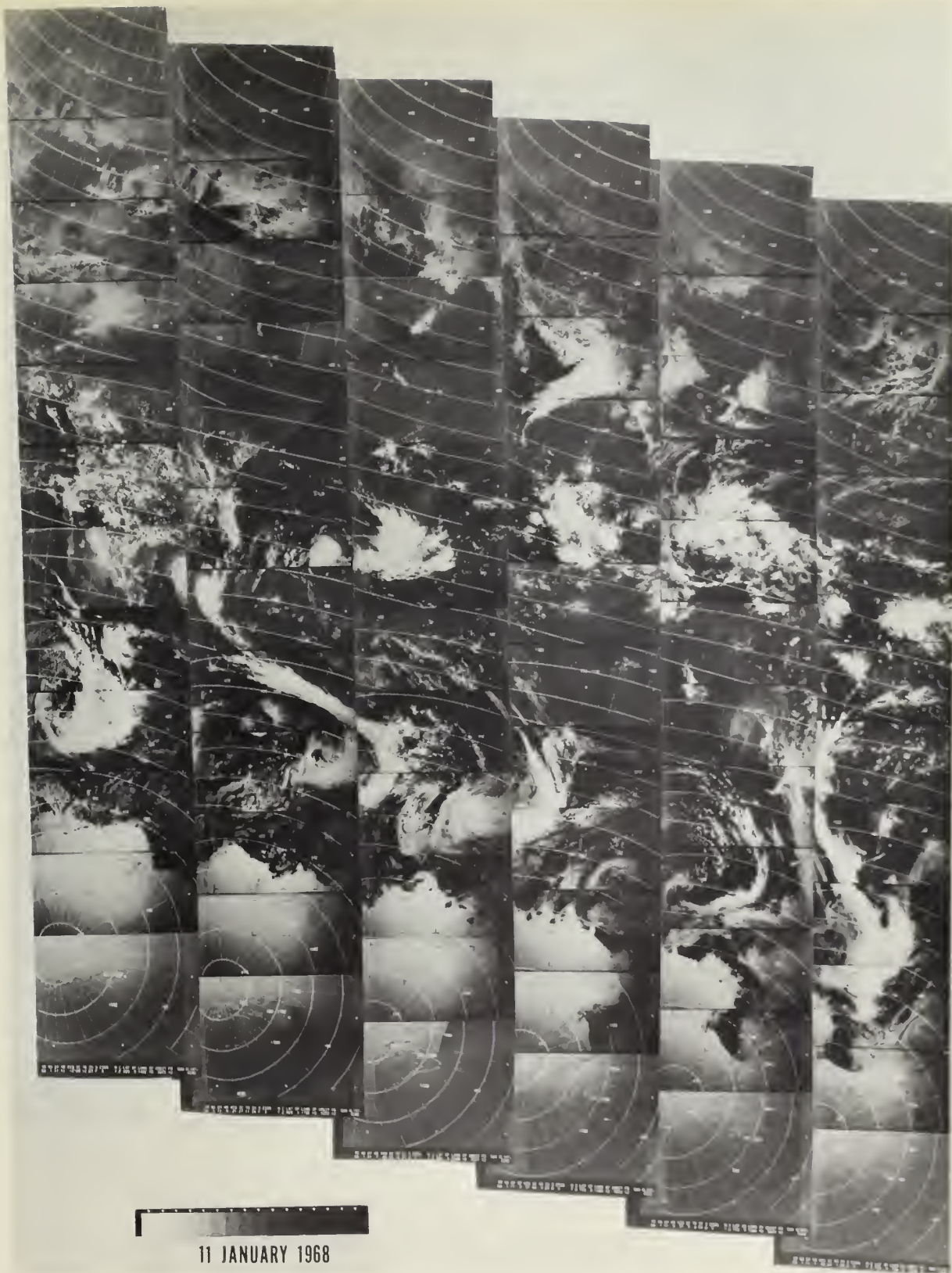
9 JANUARY 1968



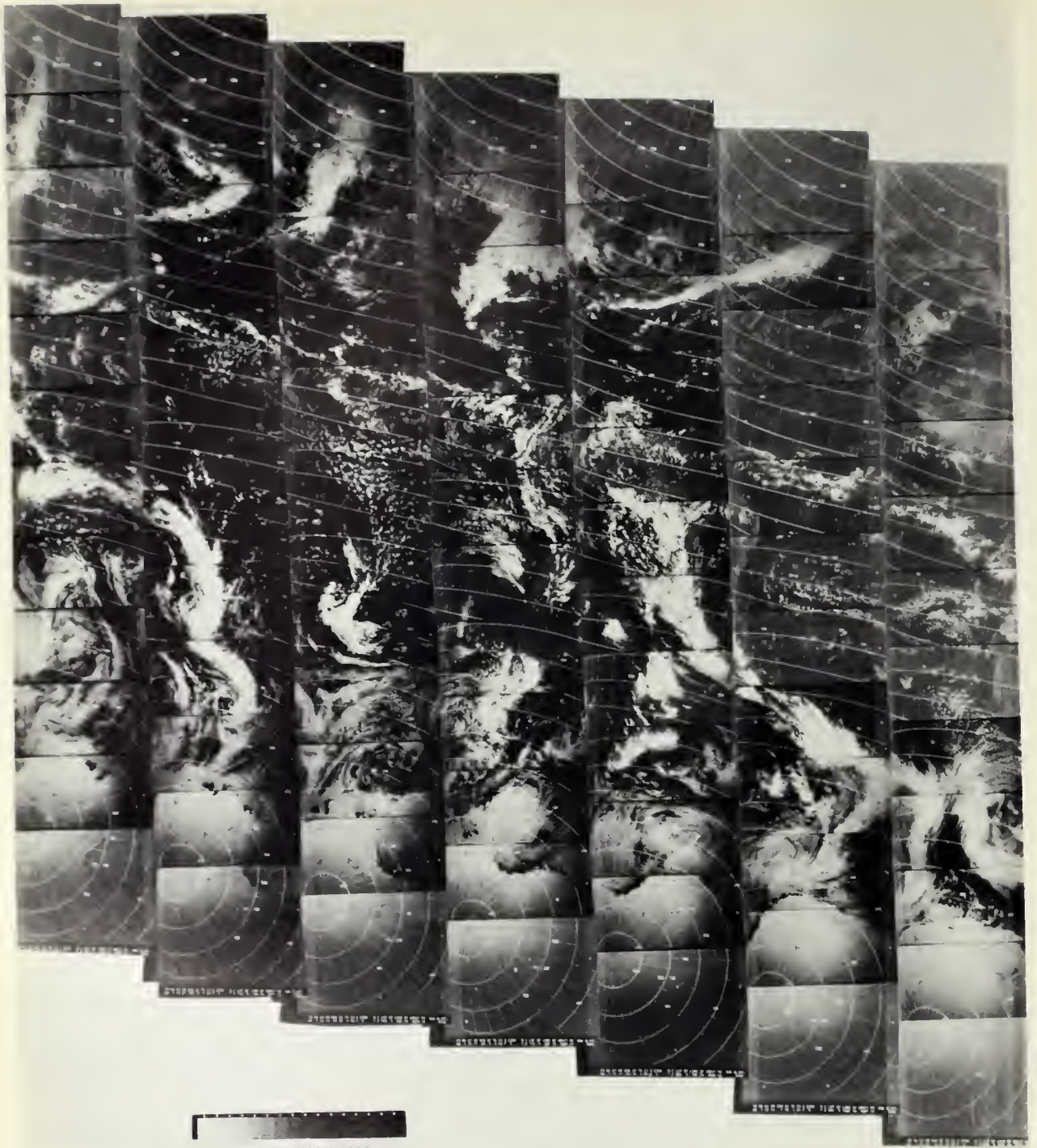


10 JANUARY 1968

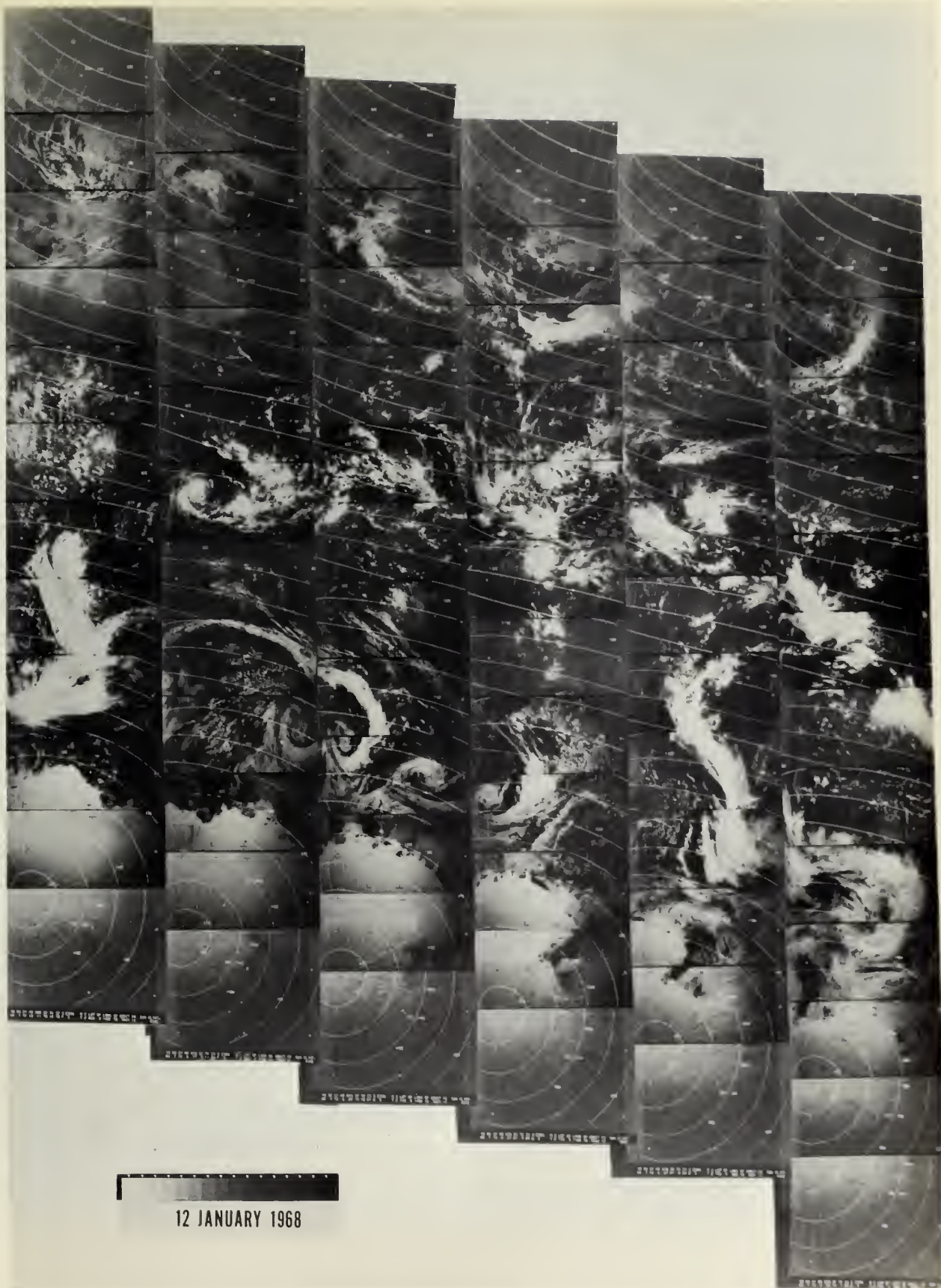




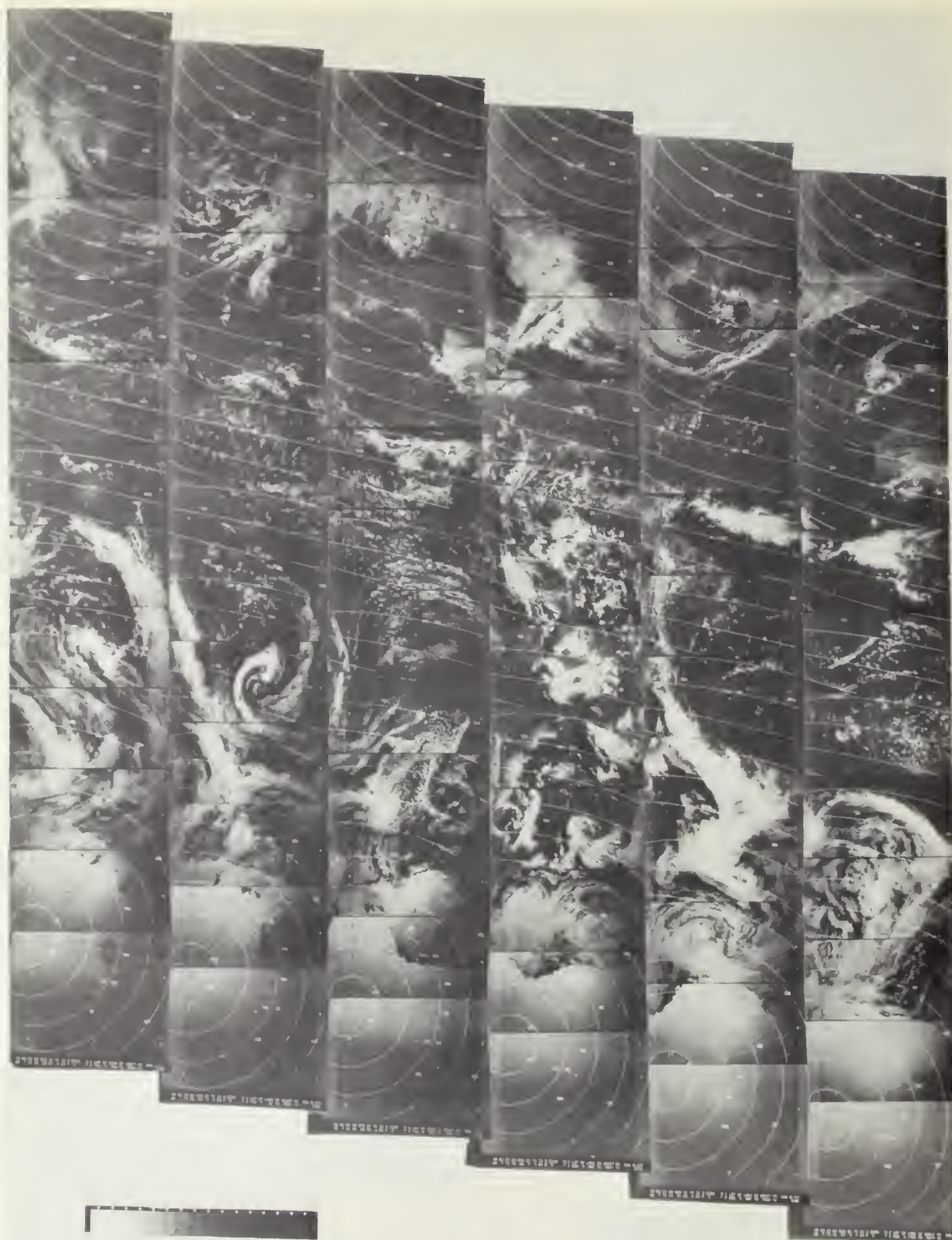
11 JANUARY 1968



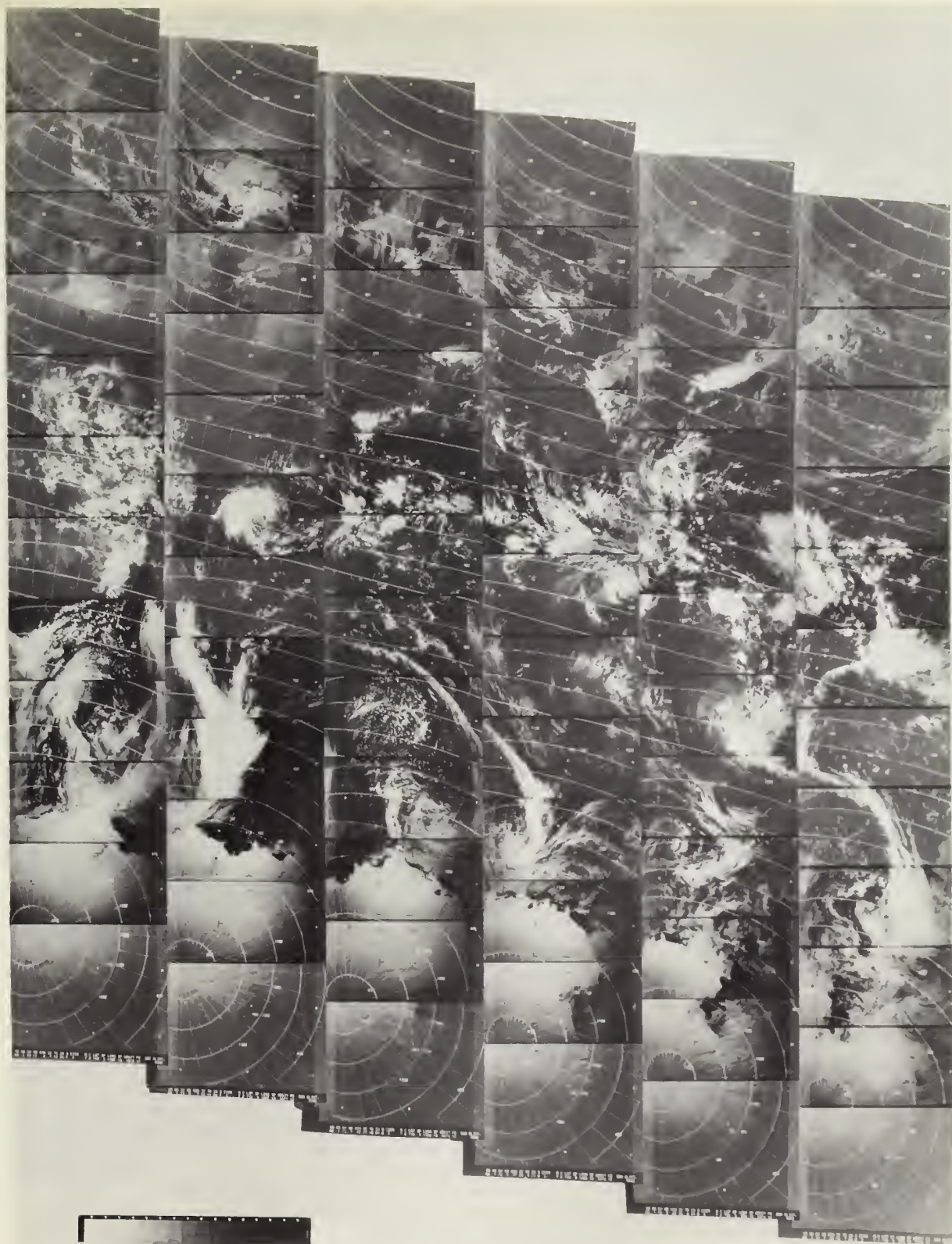
12 JANUARY 1968



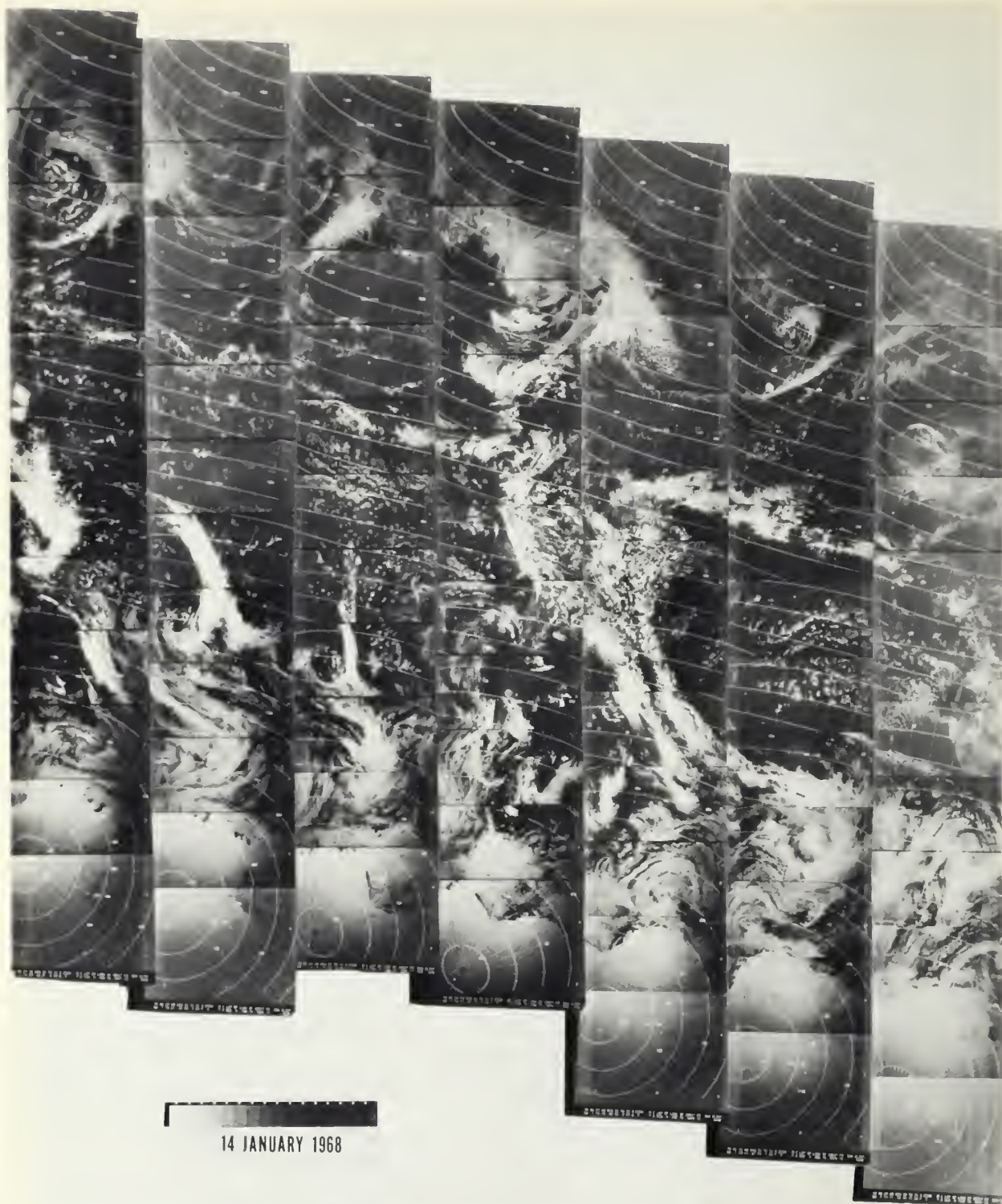
12 JANUARY 1968



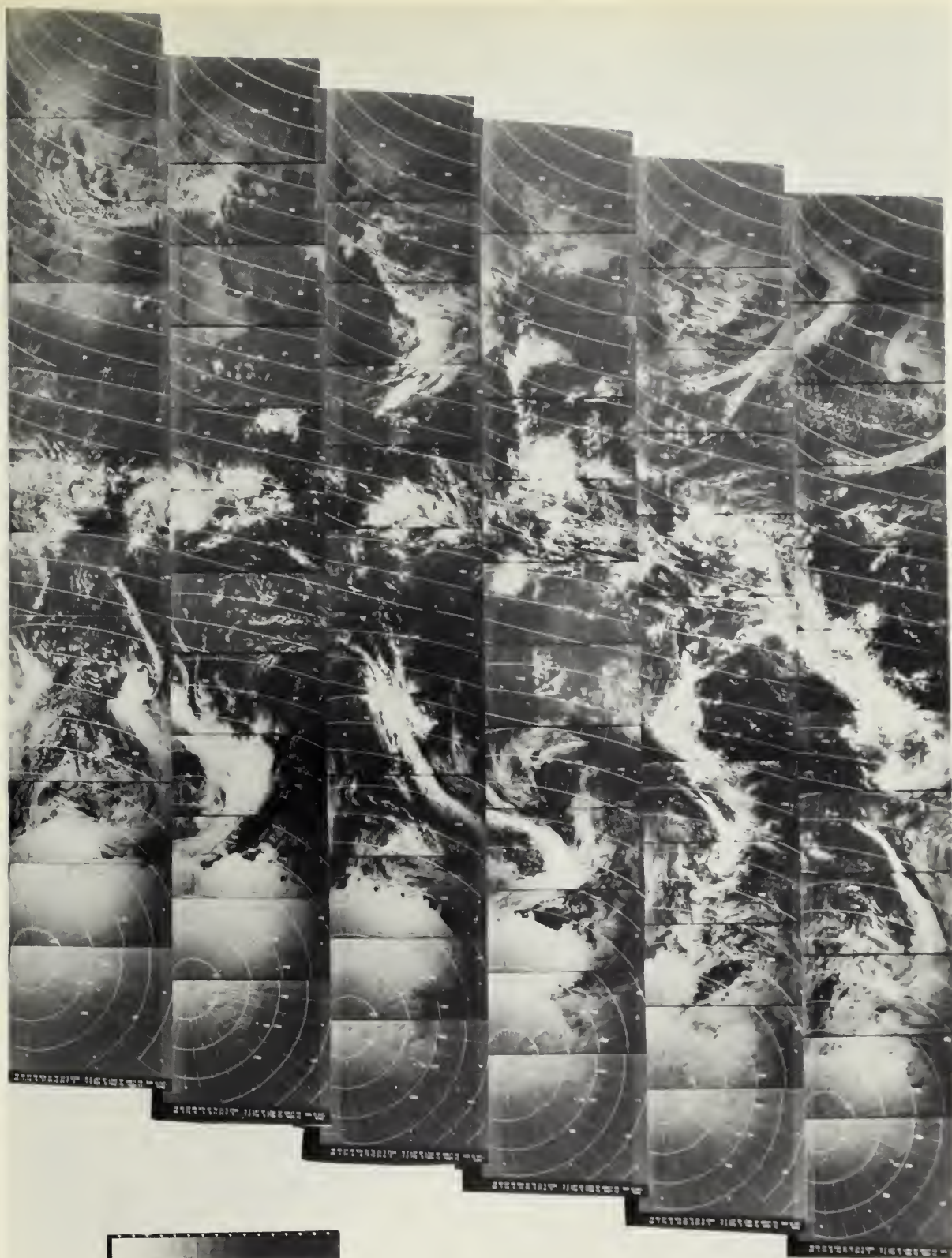
13 JANUARY 1968



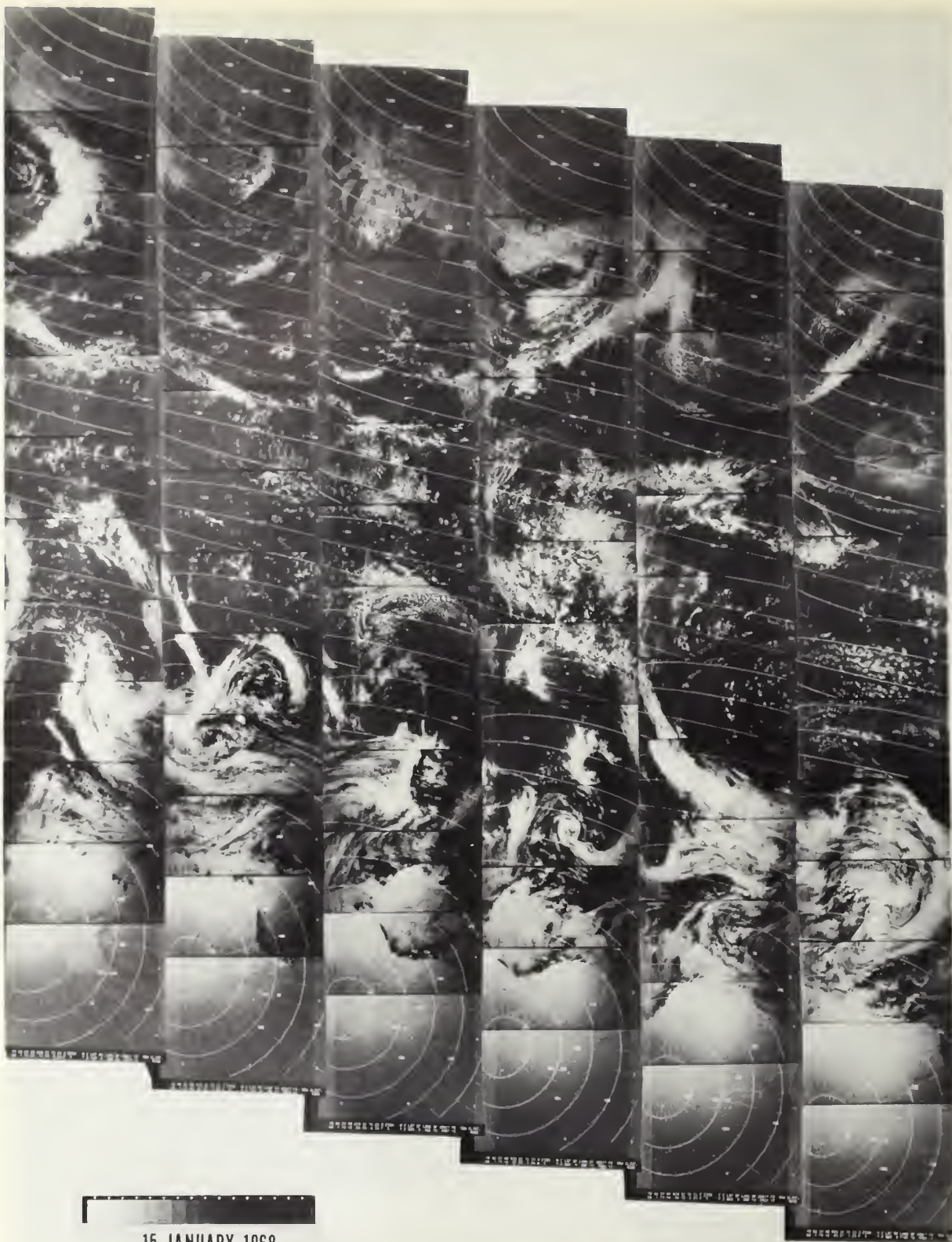
13 JANUARY 1968



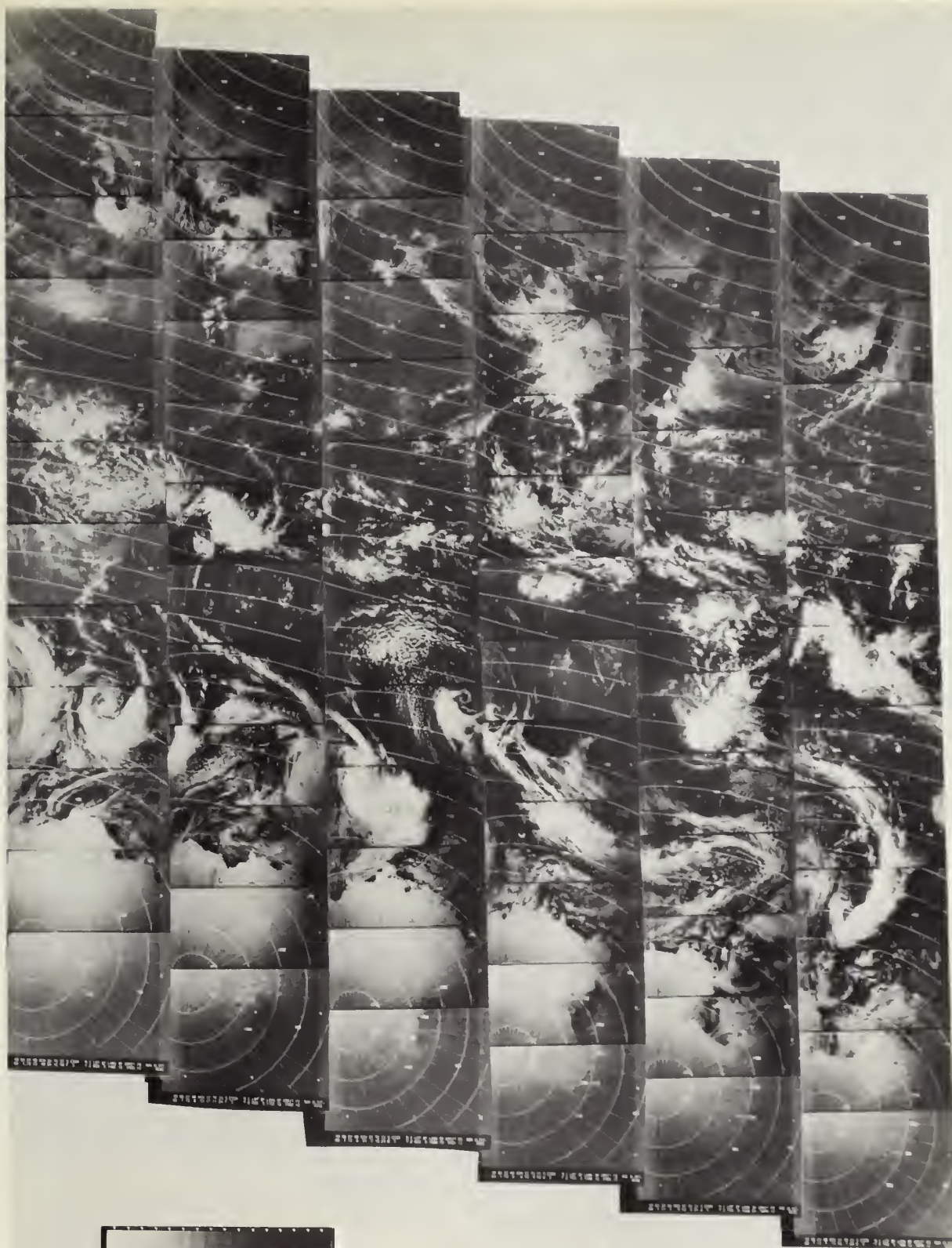
14 JANUARY 1968



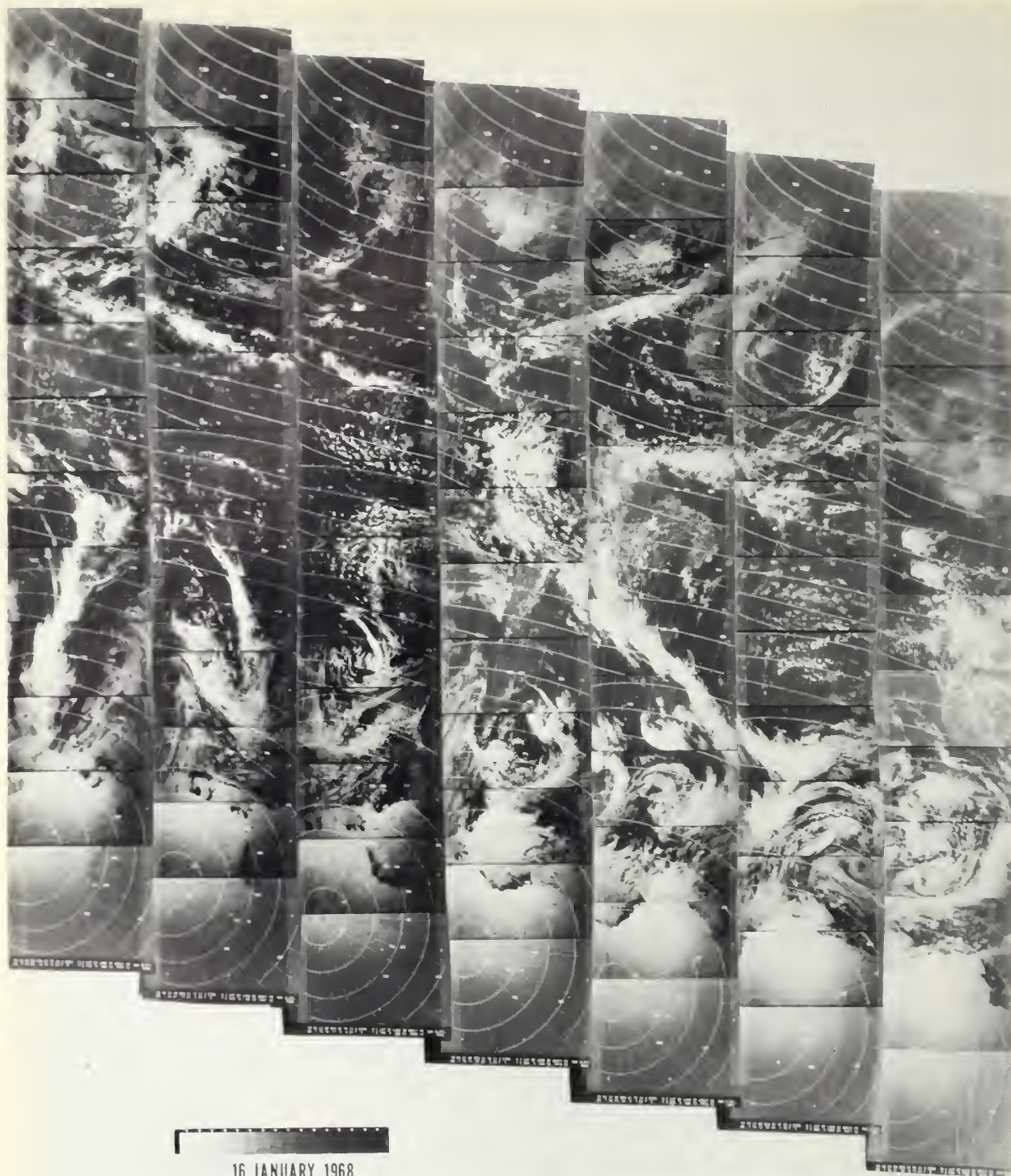
14 JANUARY 1968

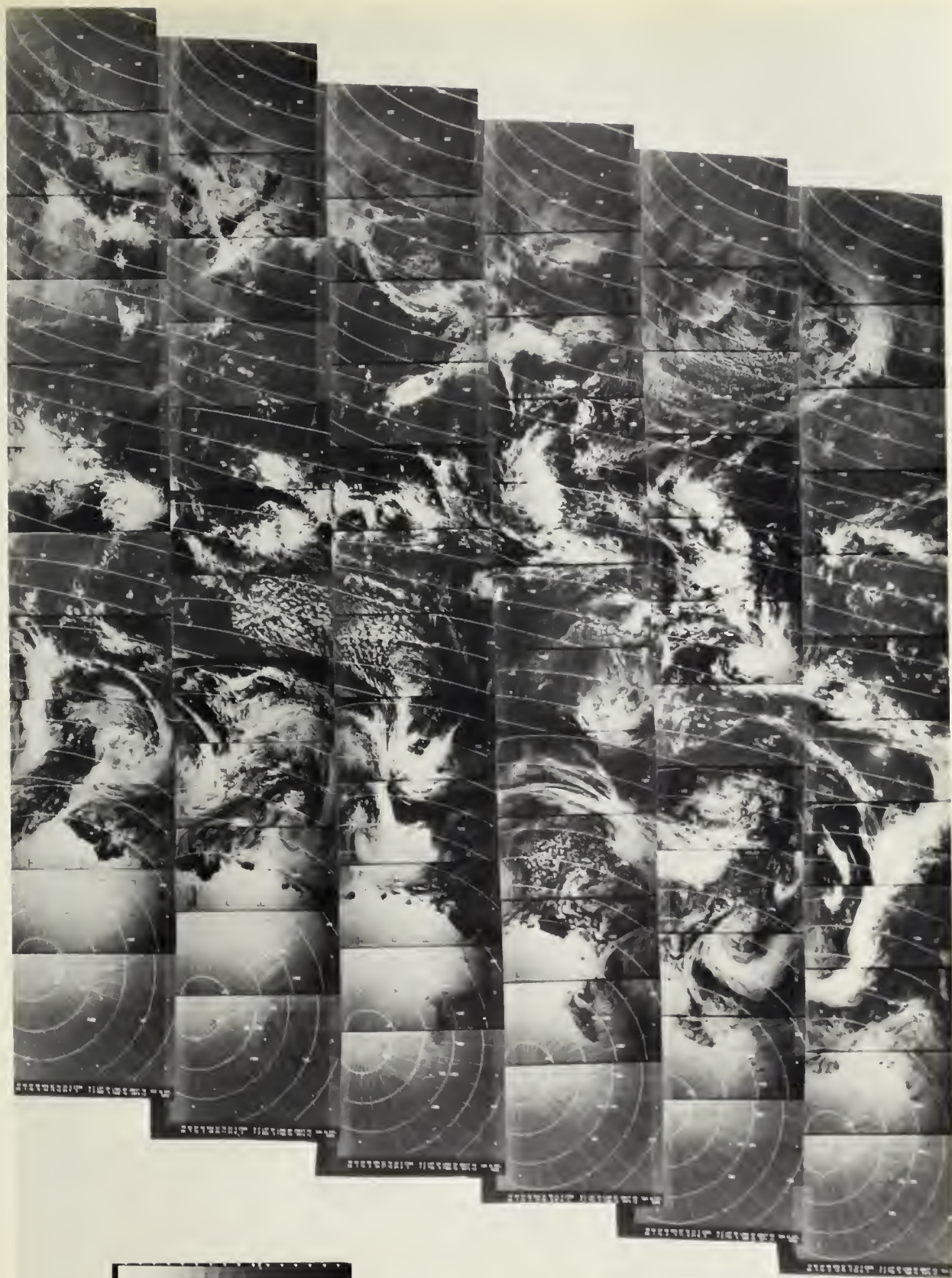


15 JANUARY 1968

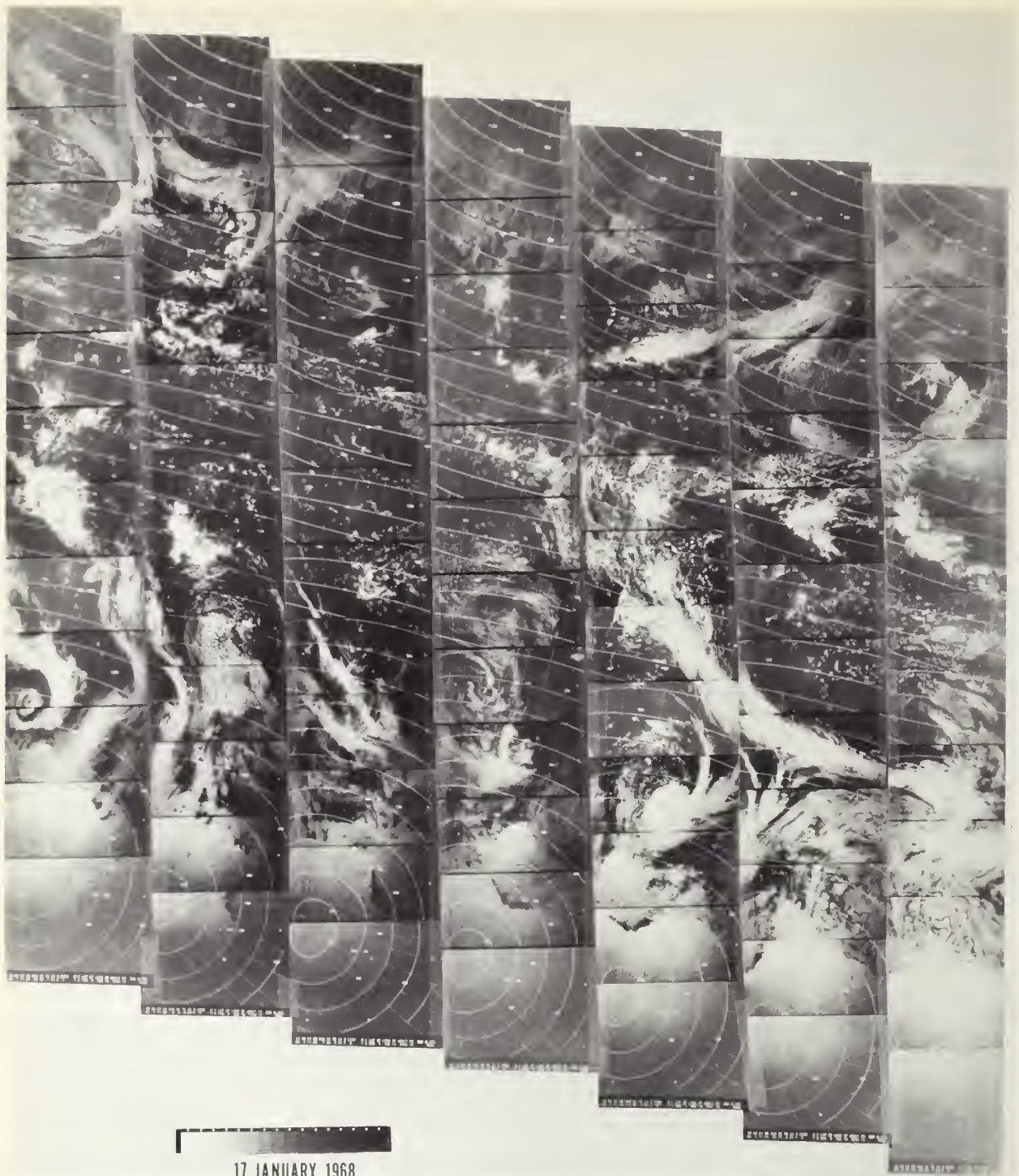


15 JANUARY 1968

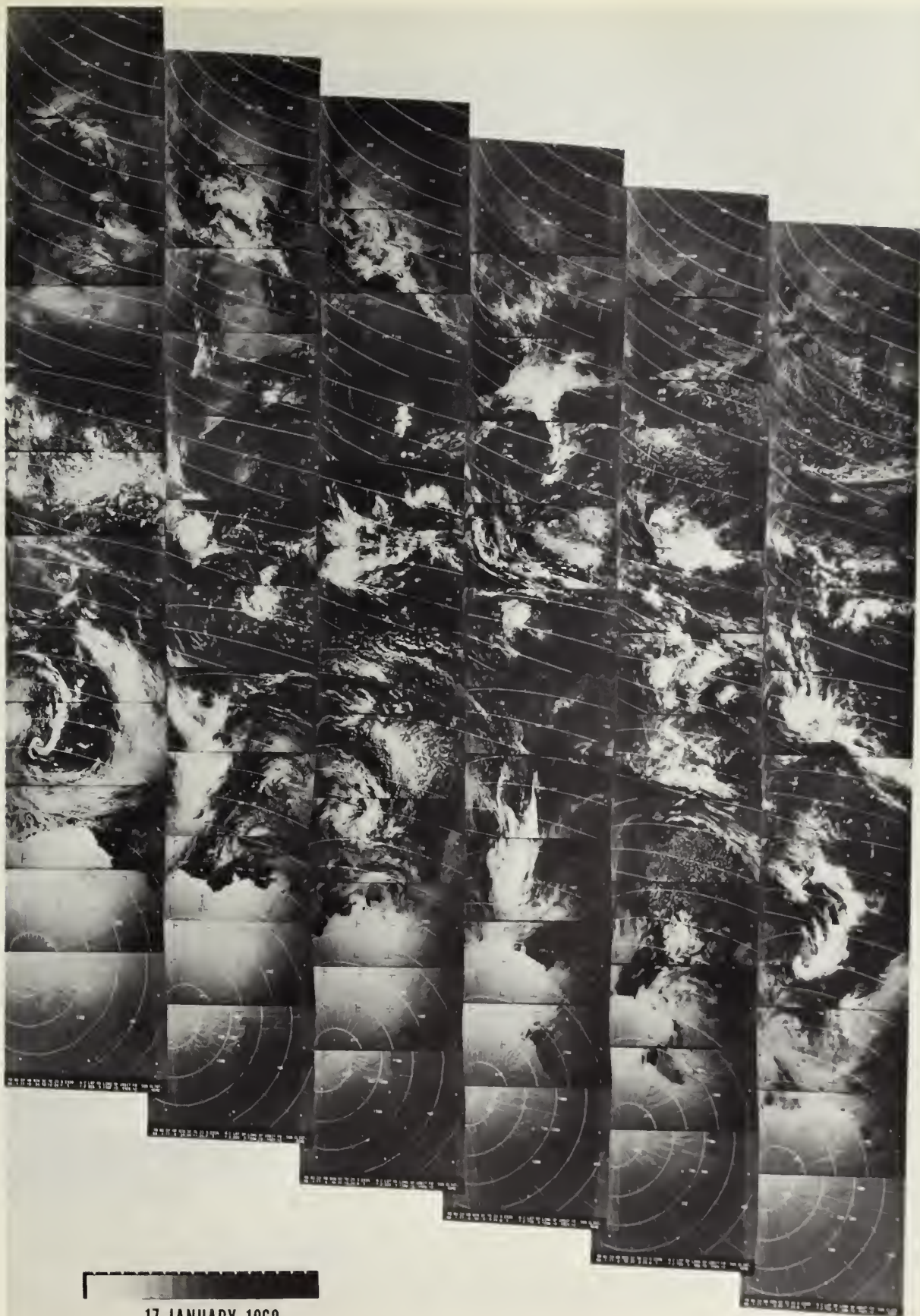




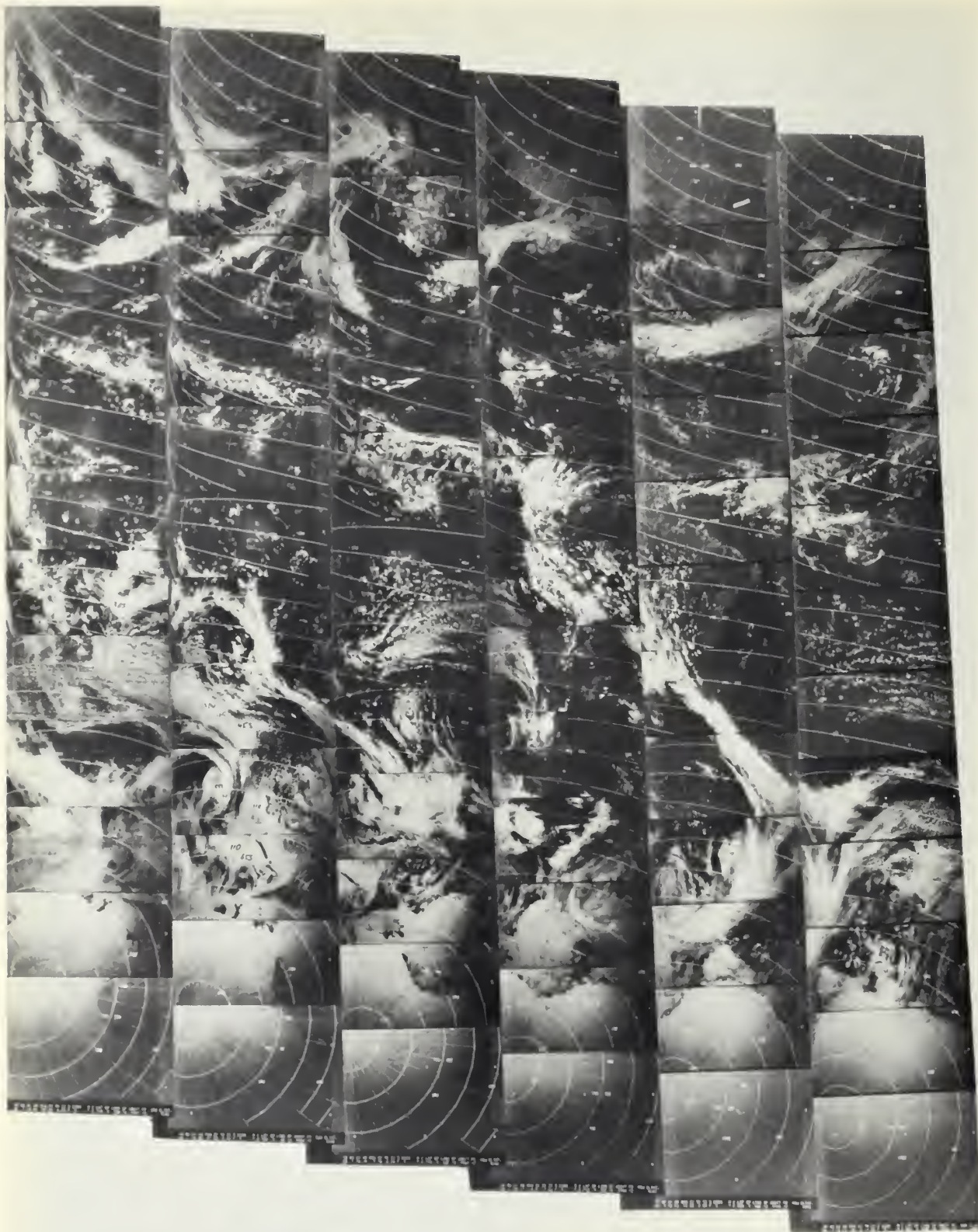
16 JANUARY 1968



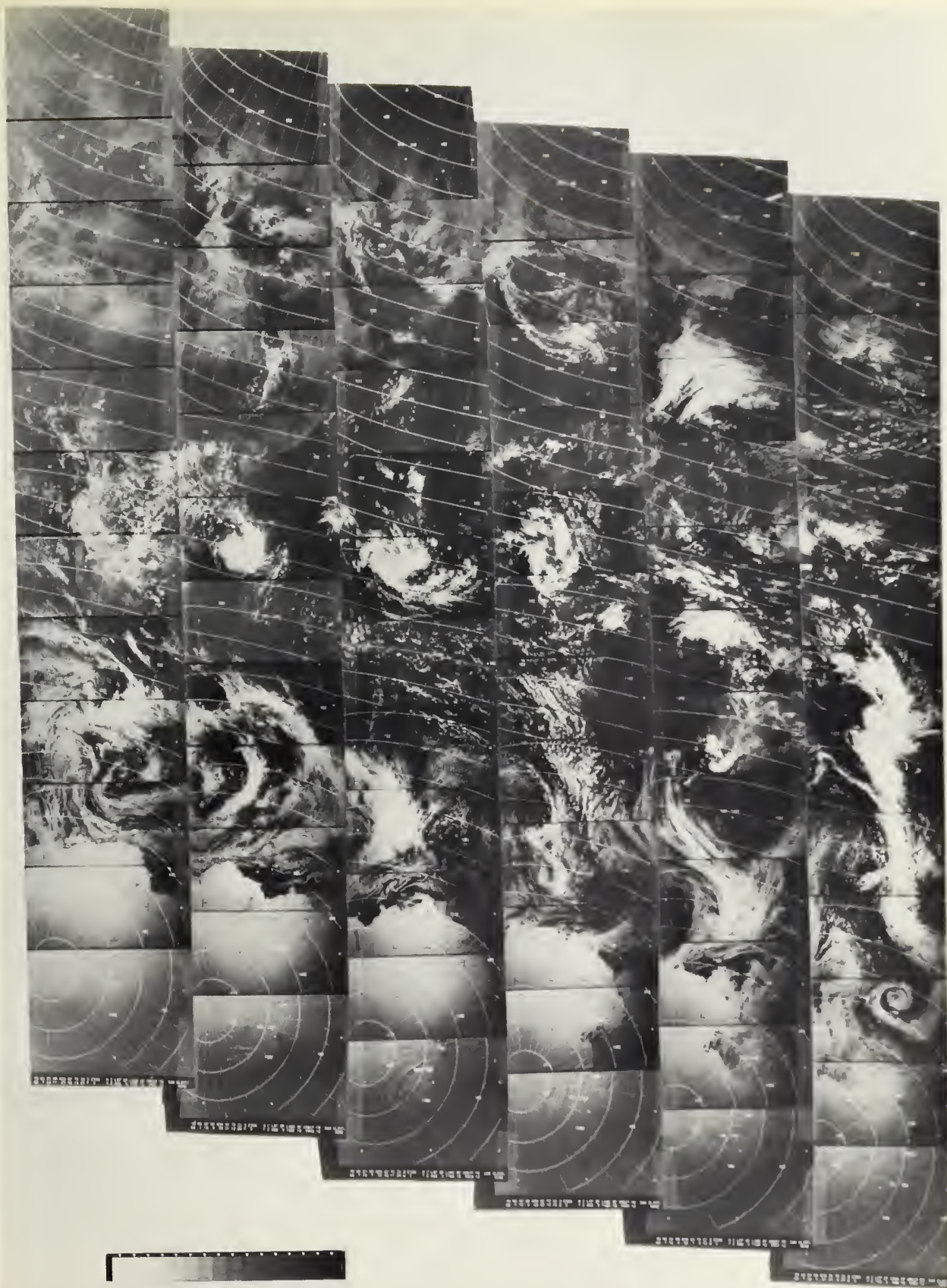
17 JANUARY 1968



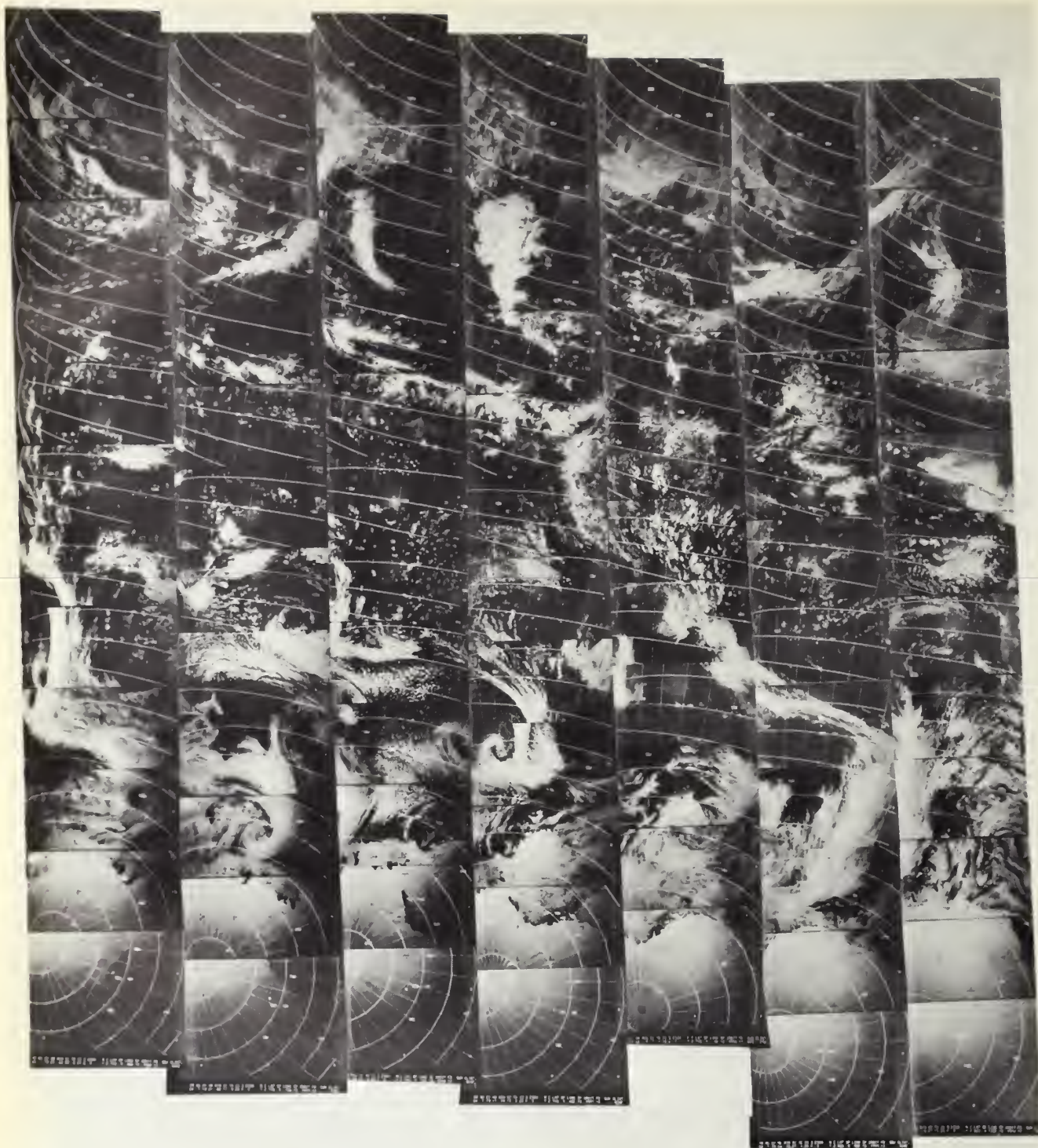
17 JANUARY 1968



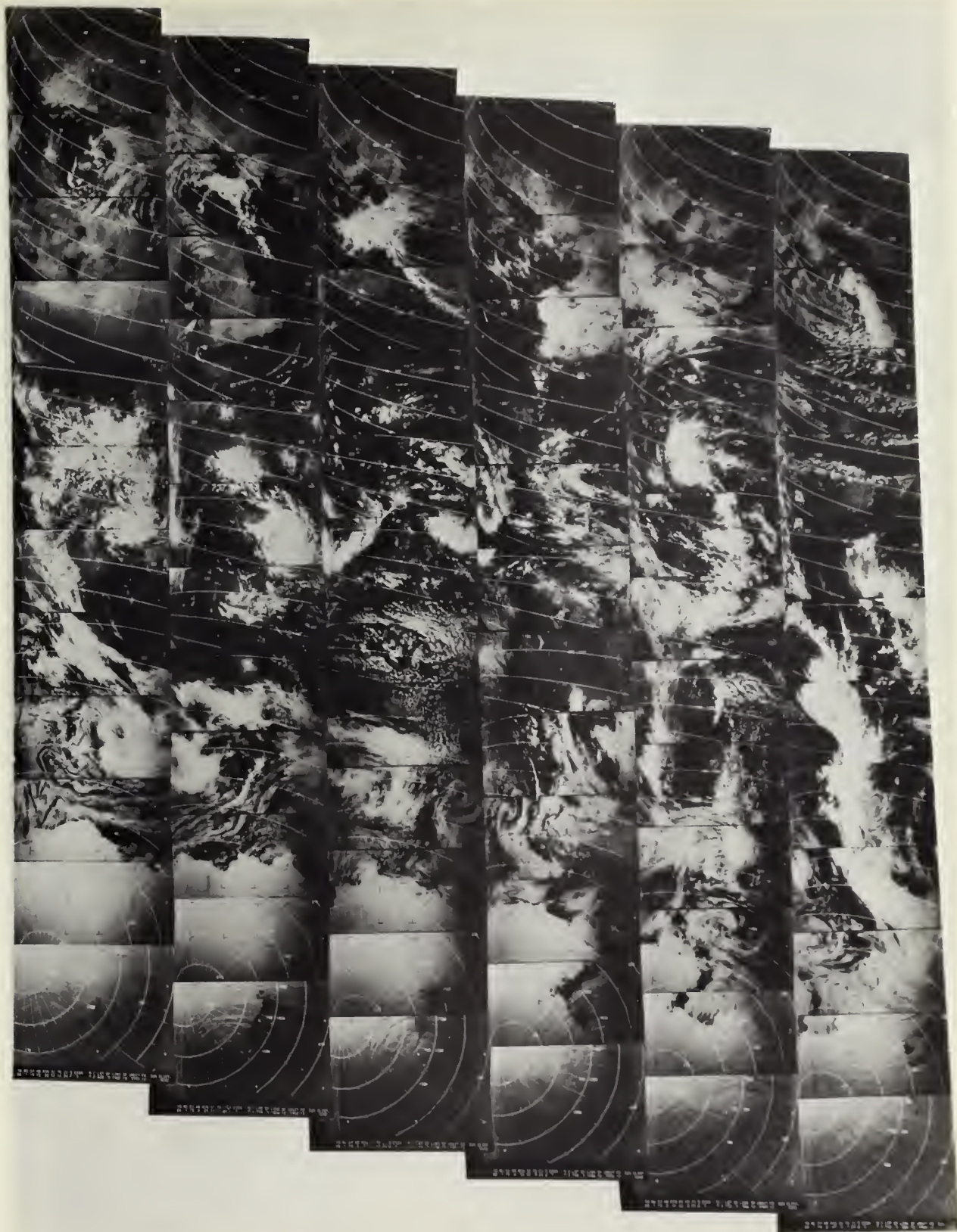
18 JANUARY 1968



18 JANUARY 1968



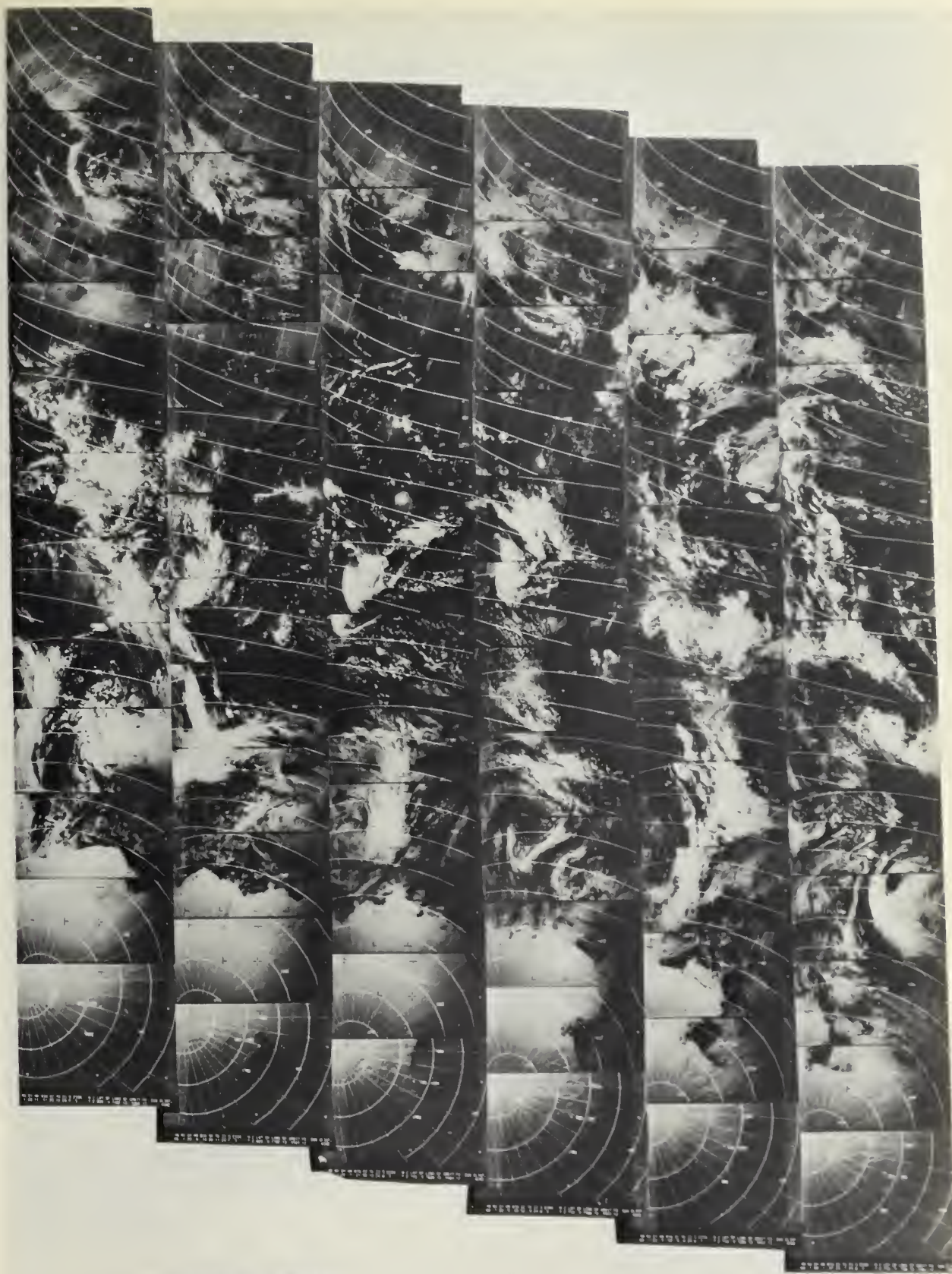
19 JANUARY 1968



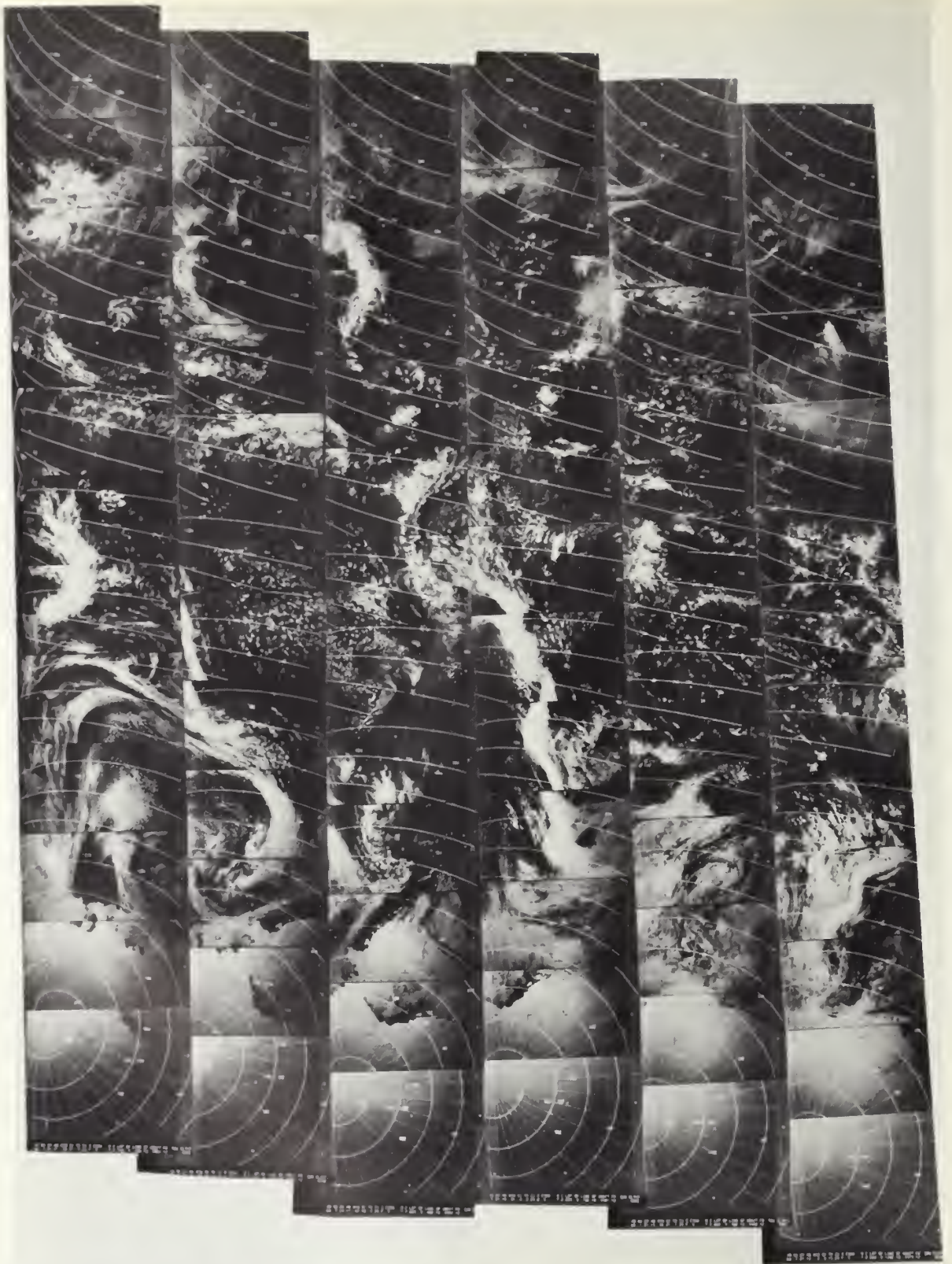
19 JANUARY 1968



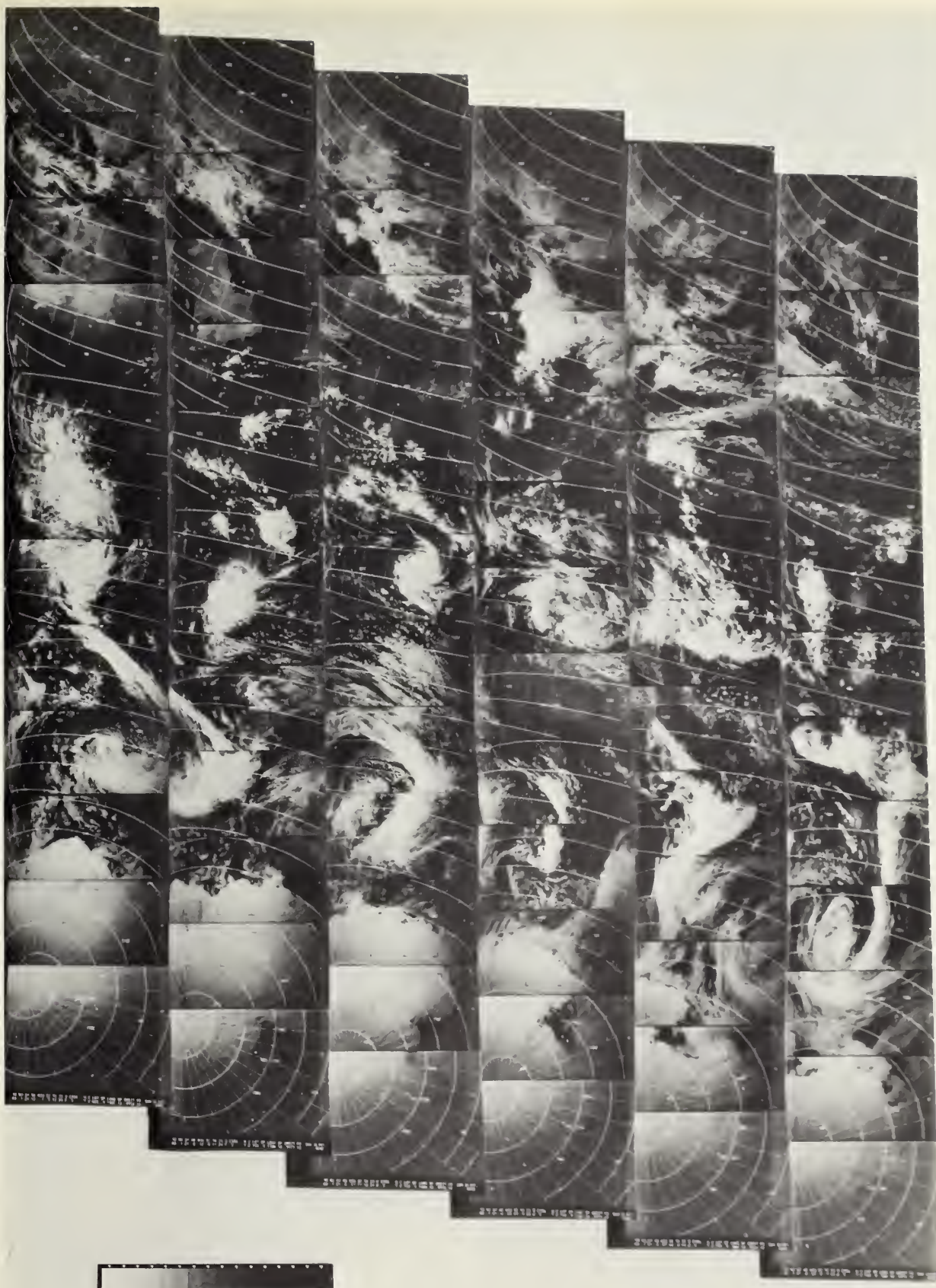
20 JANUARY 1968



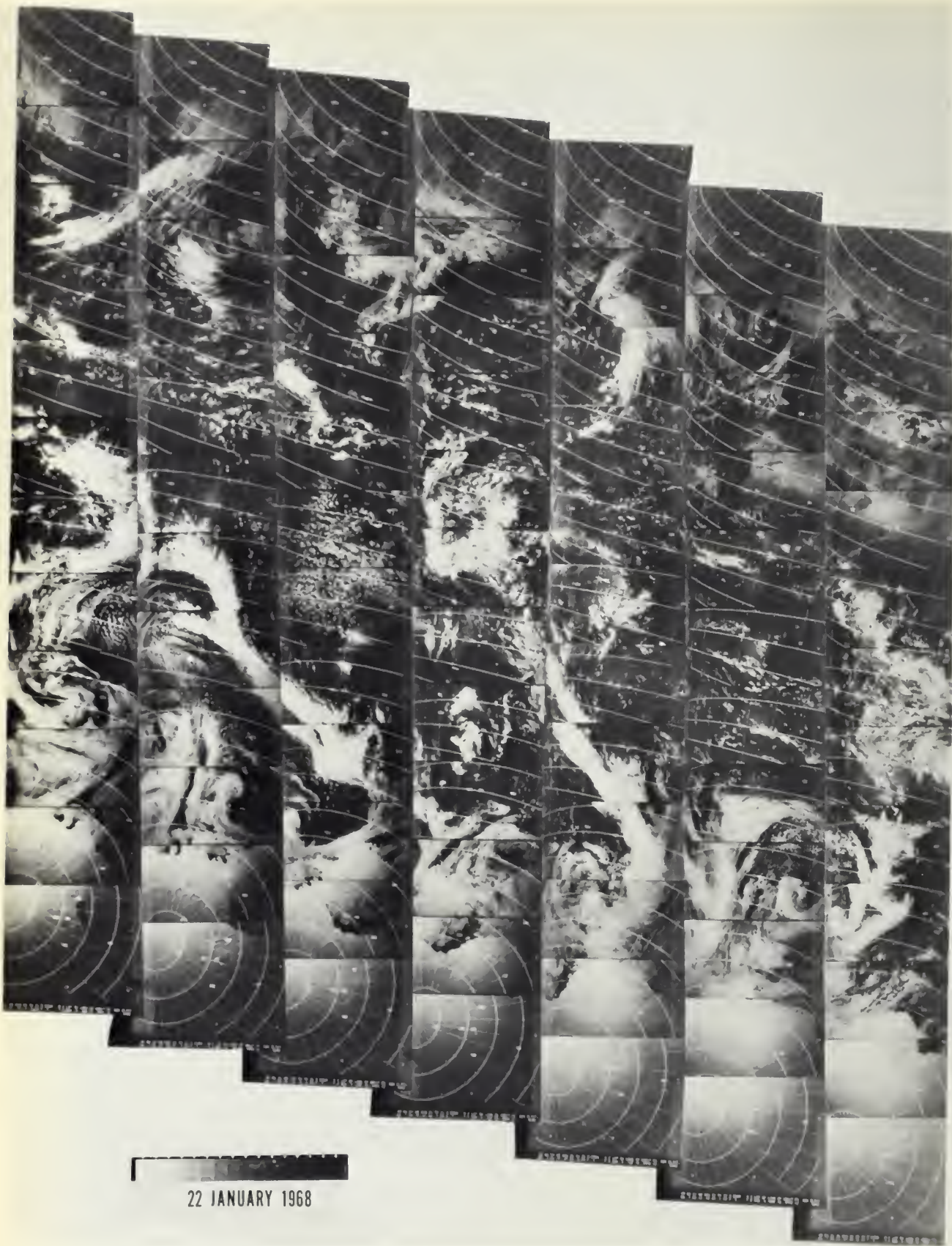
20 JANUARY 1968



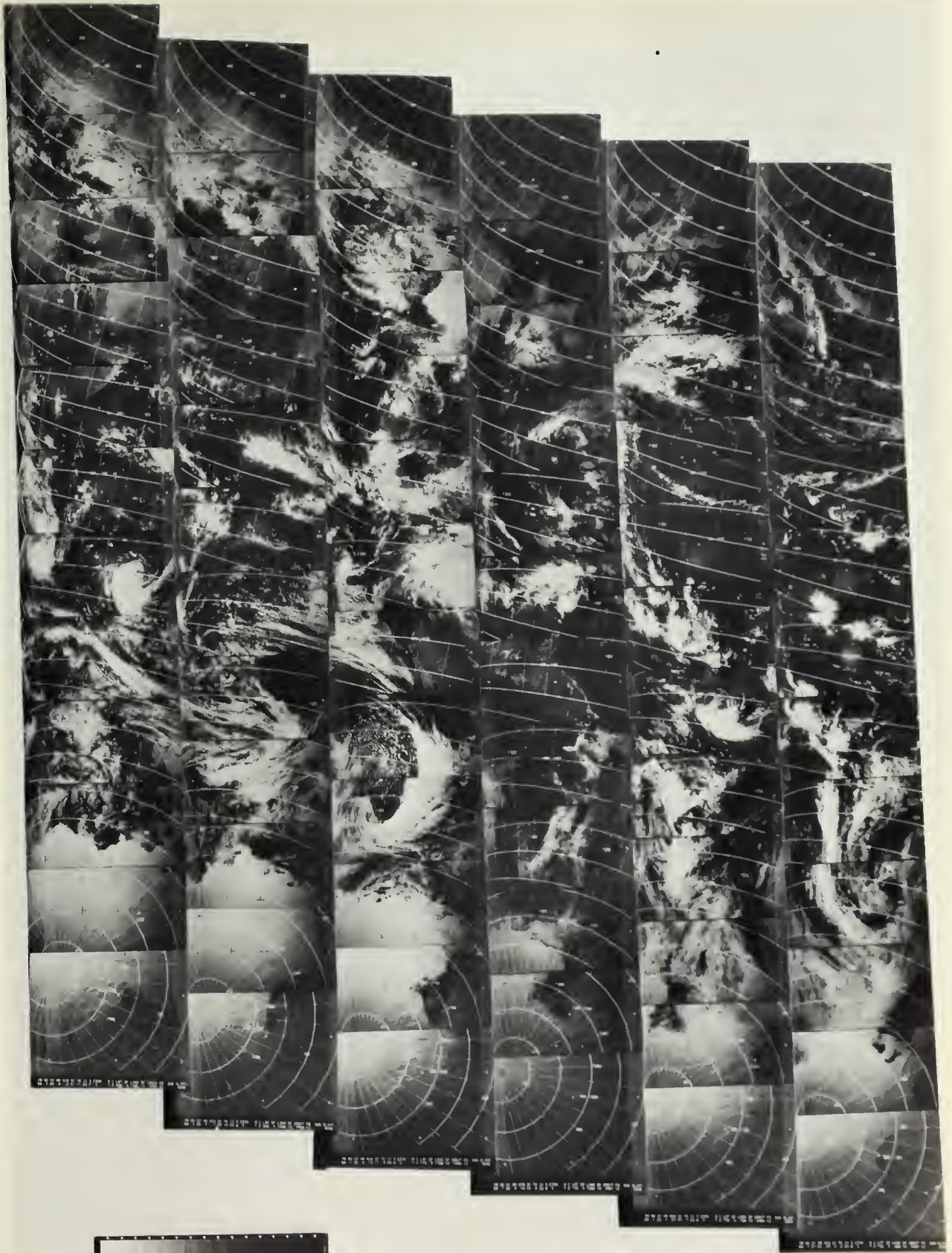
21 JANUARY 1968



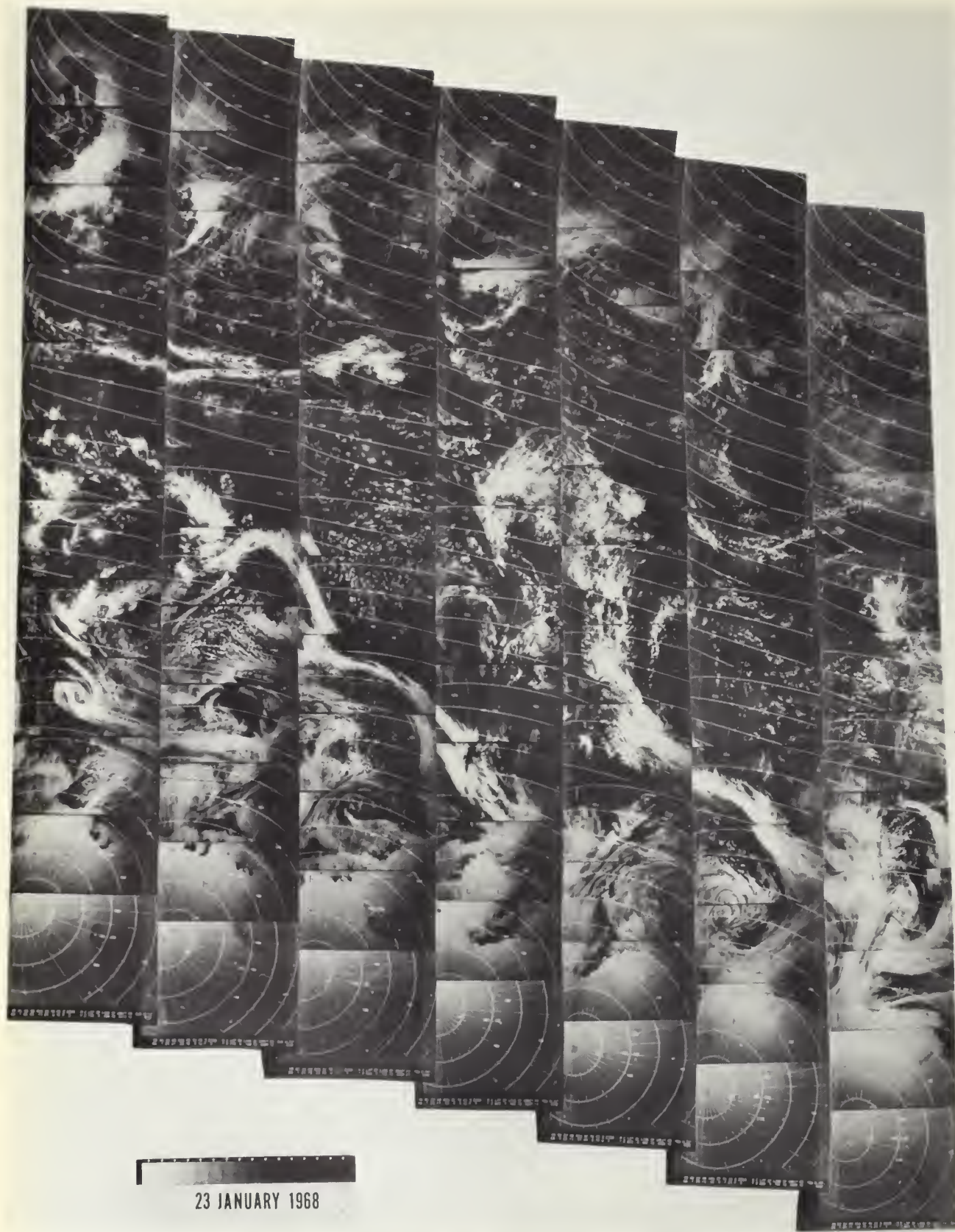
21 JANUARY 1968



22 JANUARY 1968



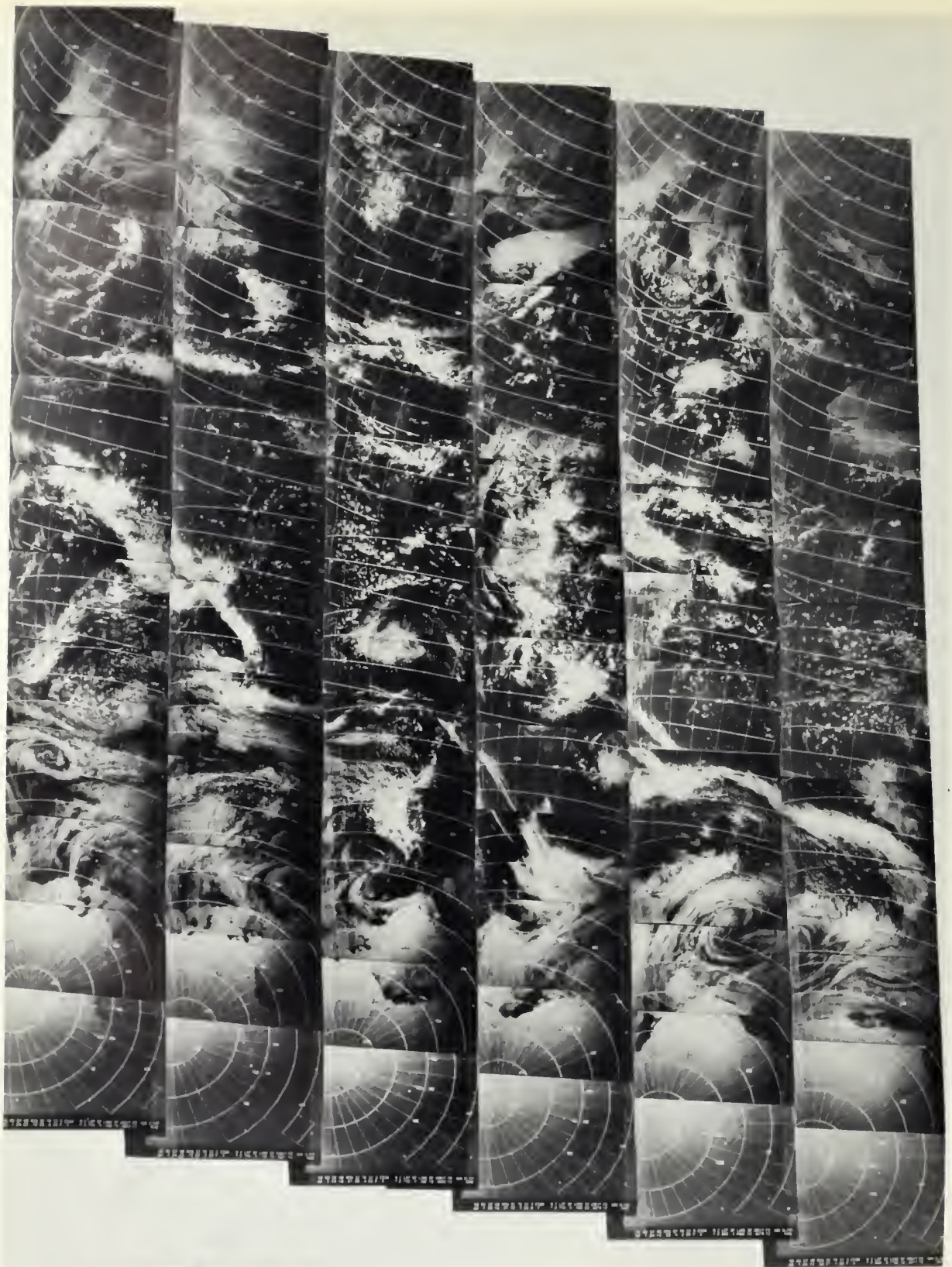
22 JANUARY 1968



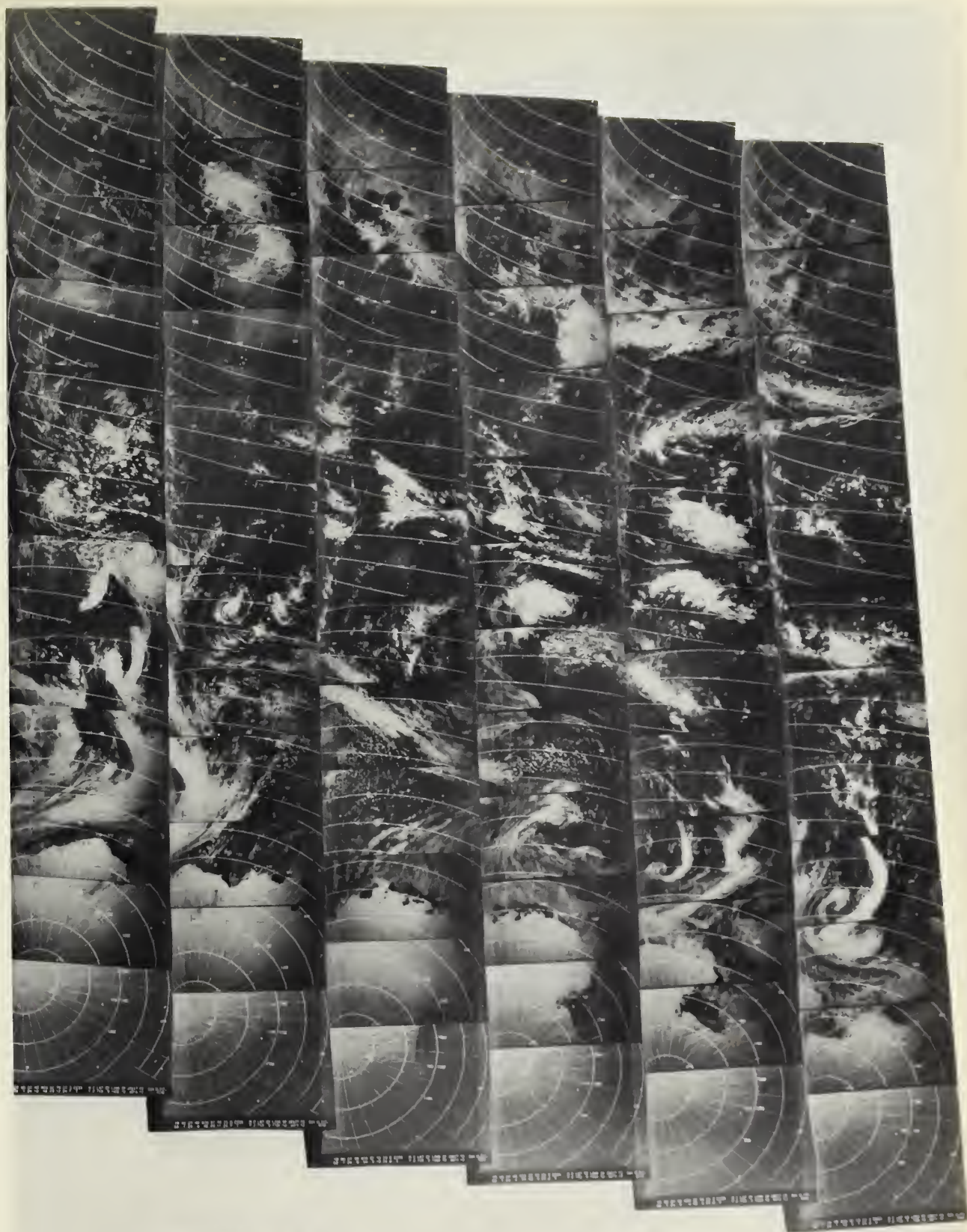
23 JANUARY 1968



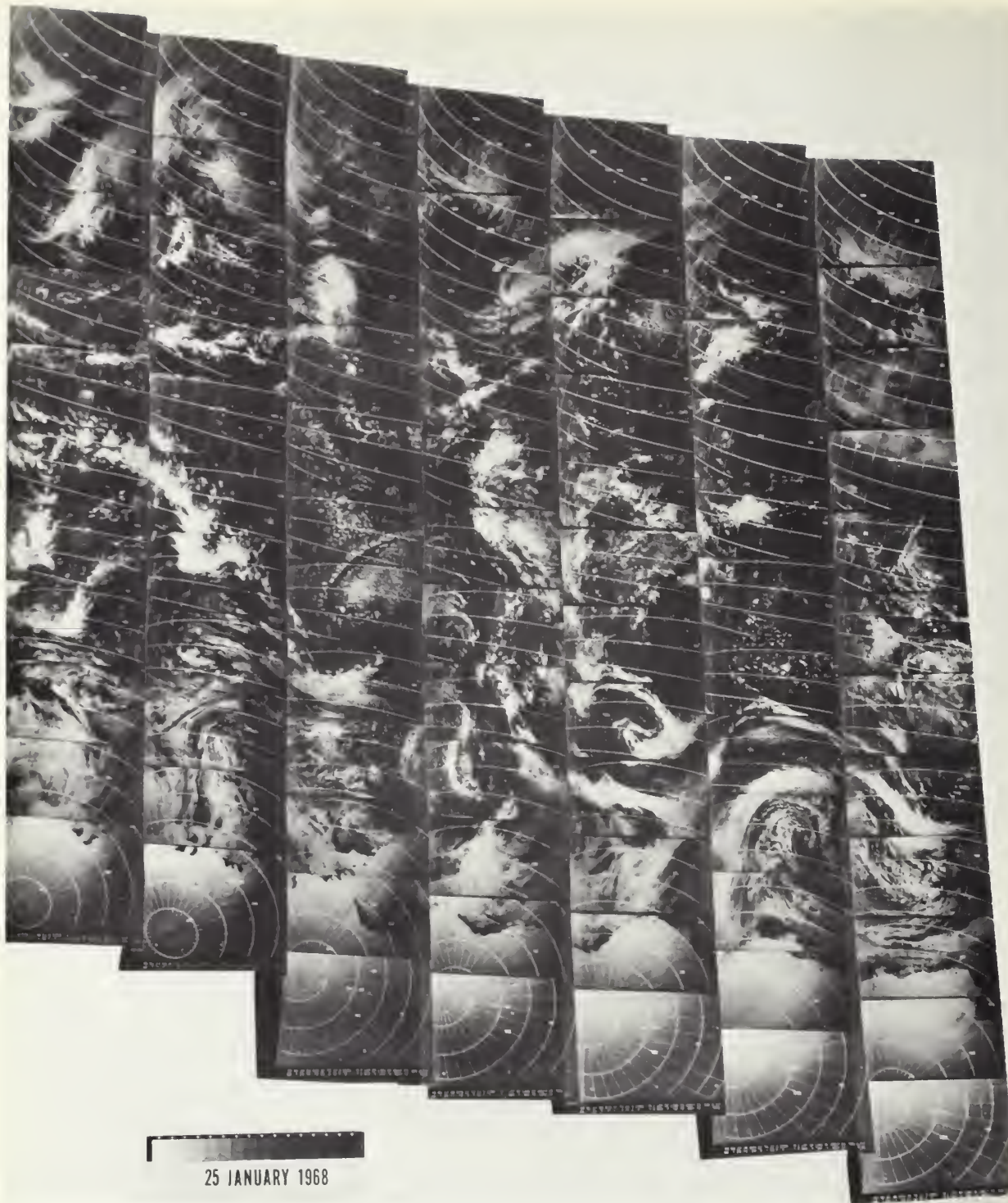
23 JANUARY 1968



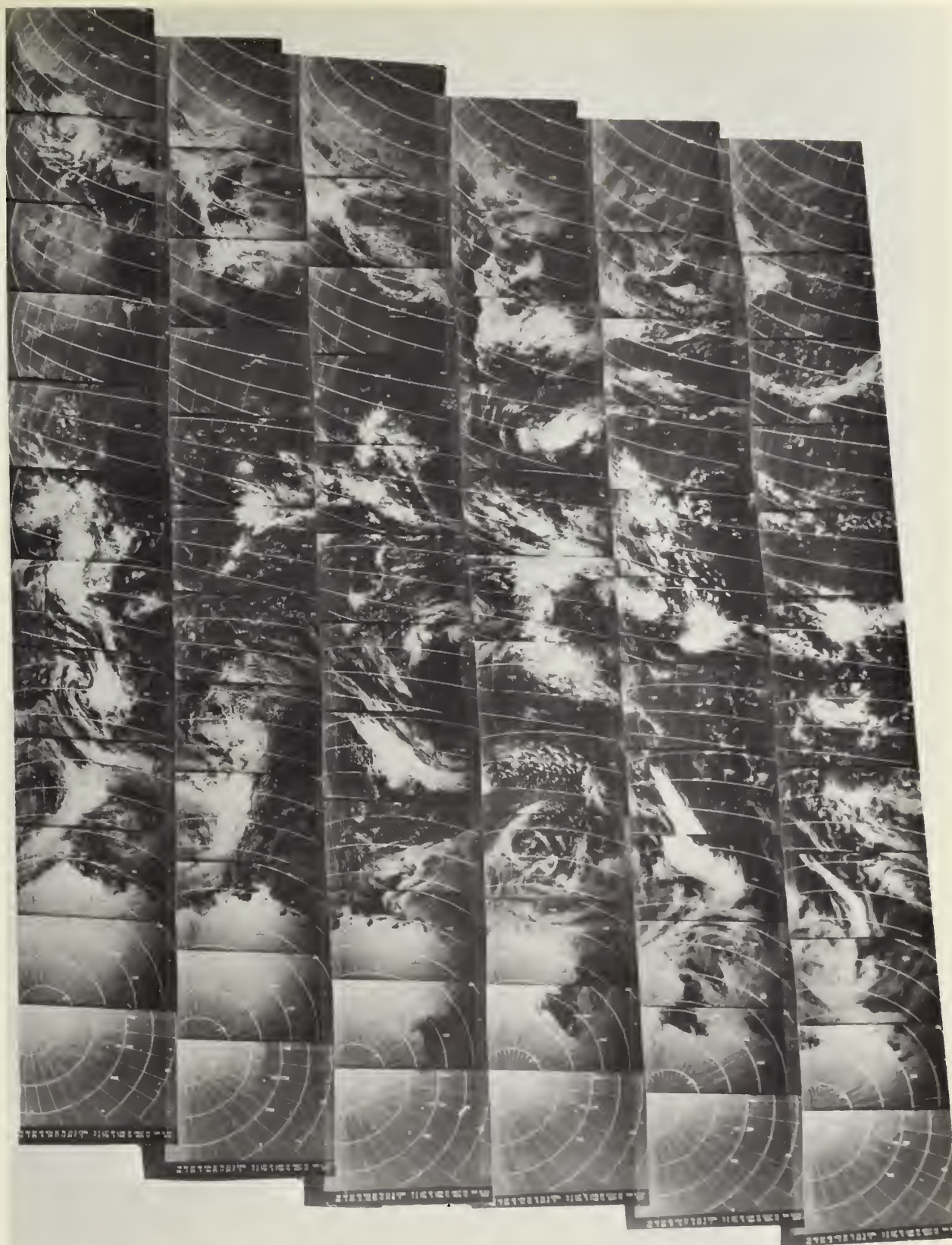
24 JANUARY 1968



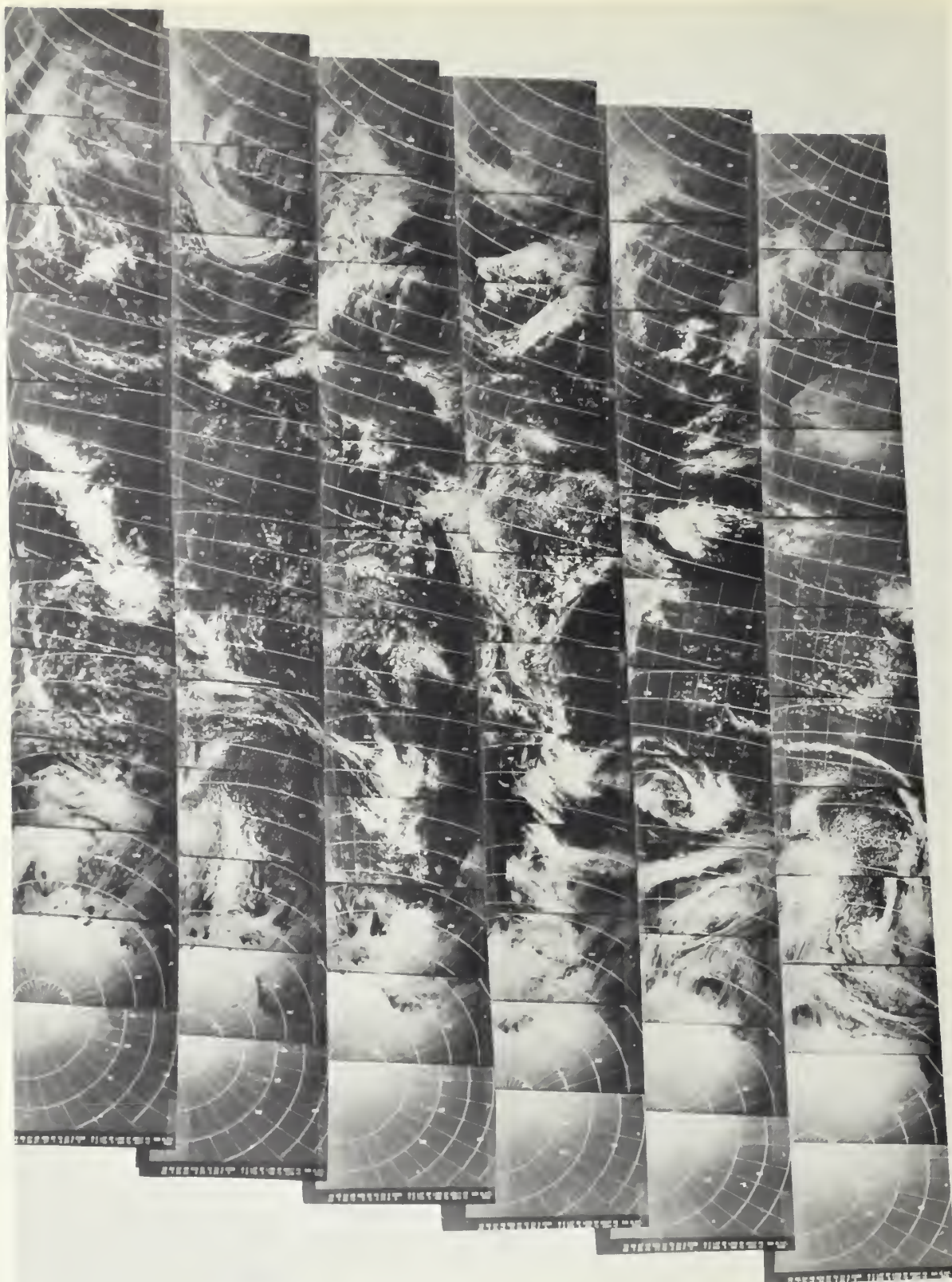
24 JANUARY 1968



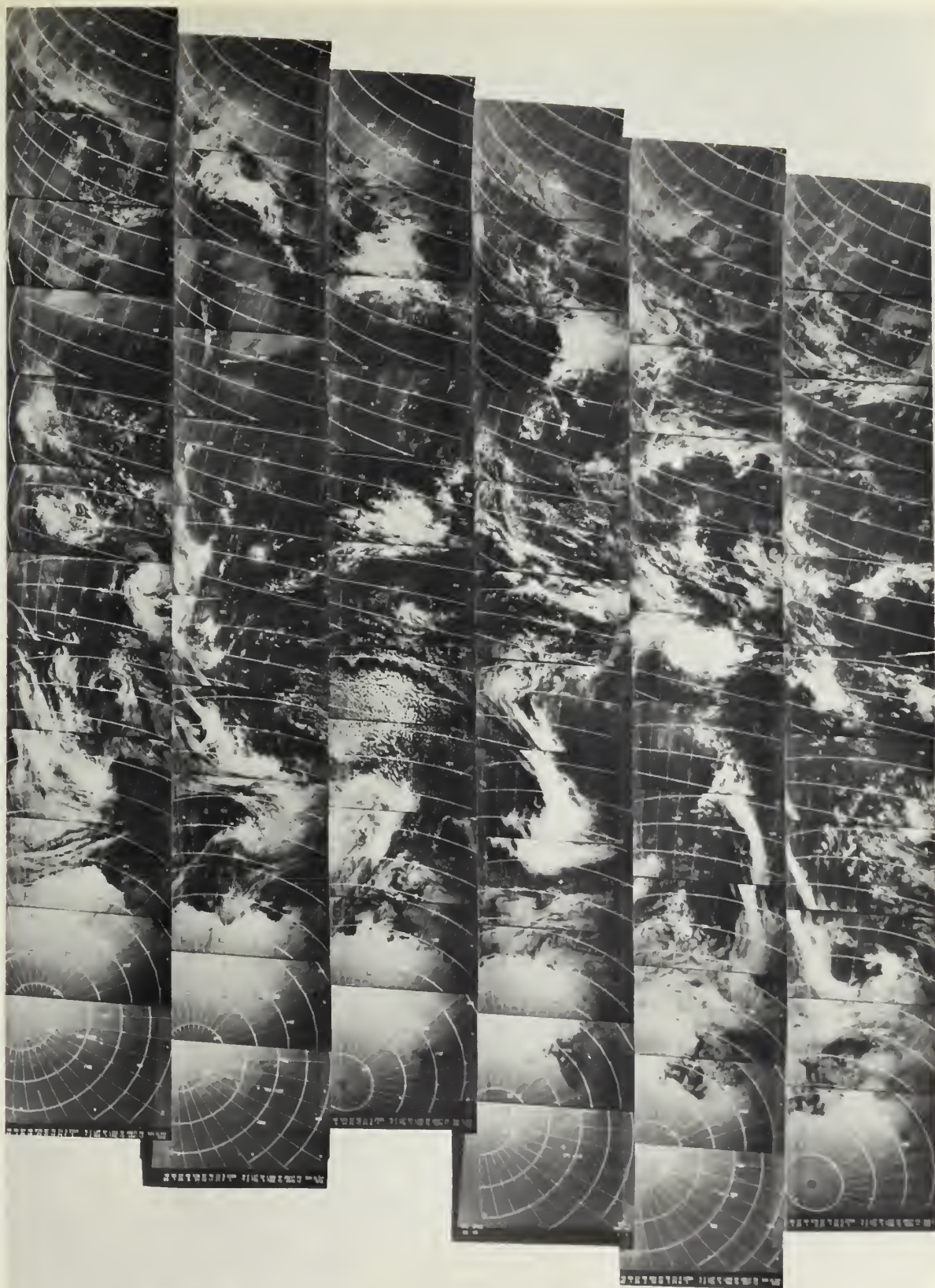
25 JANUARY 1968



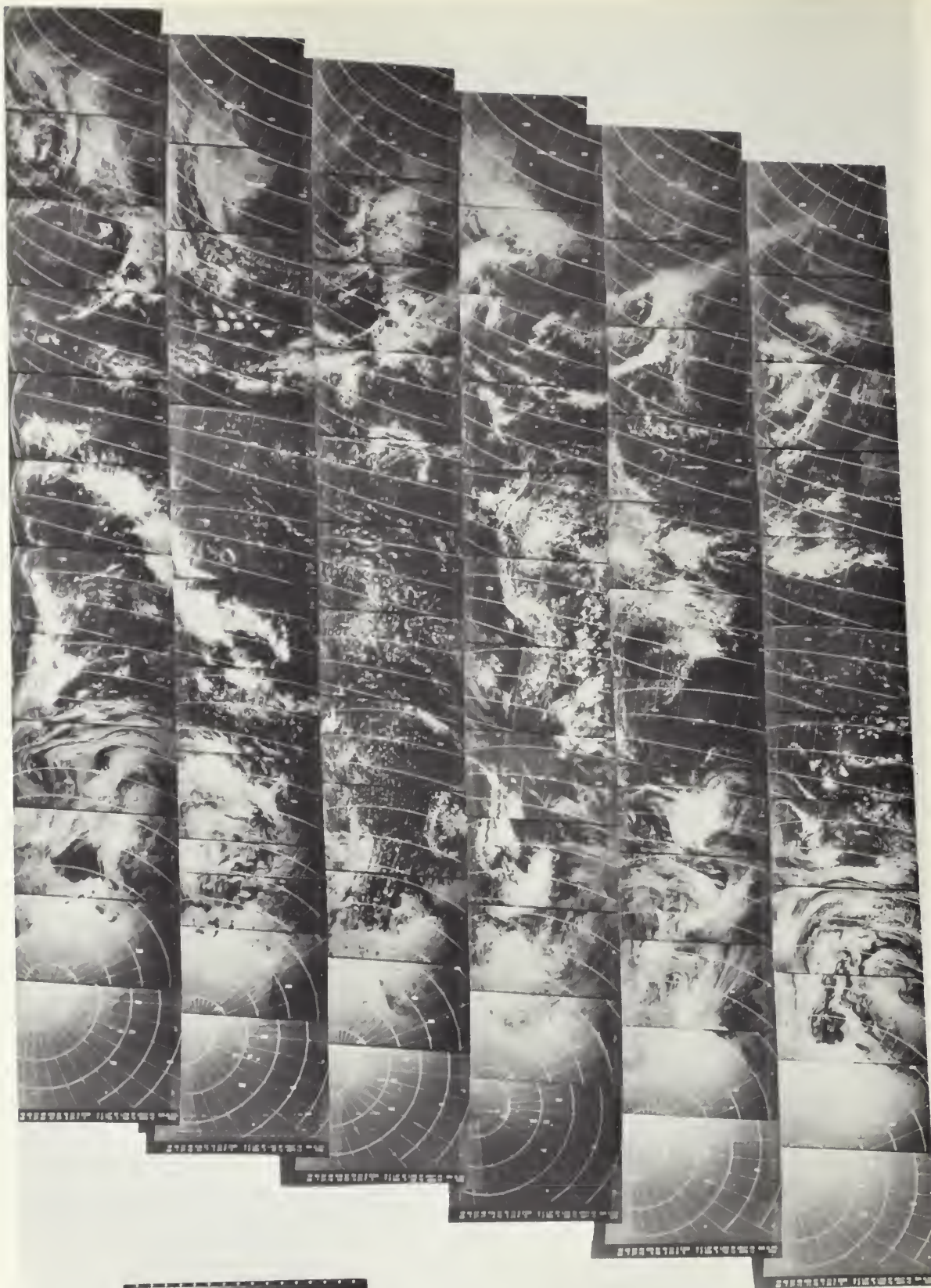
25 JANUARY 1968



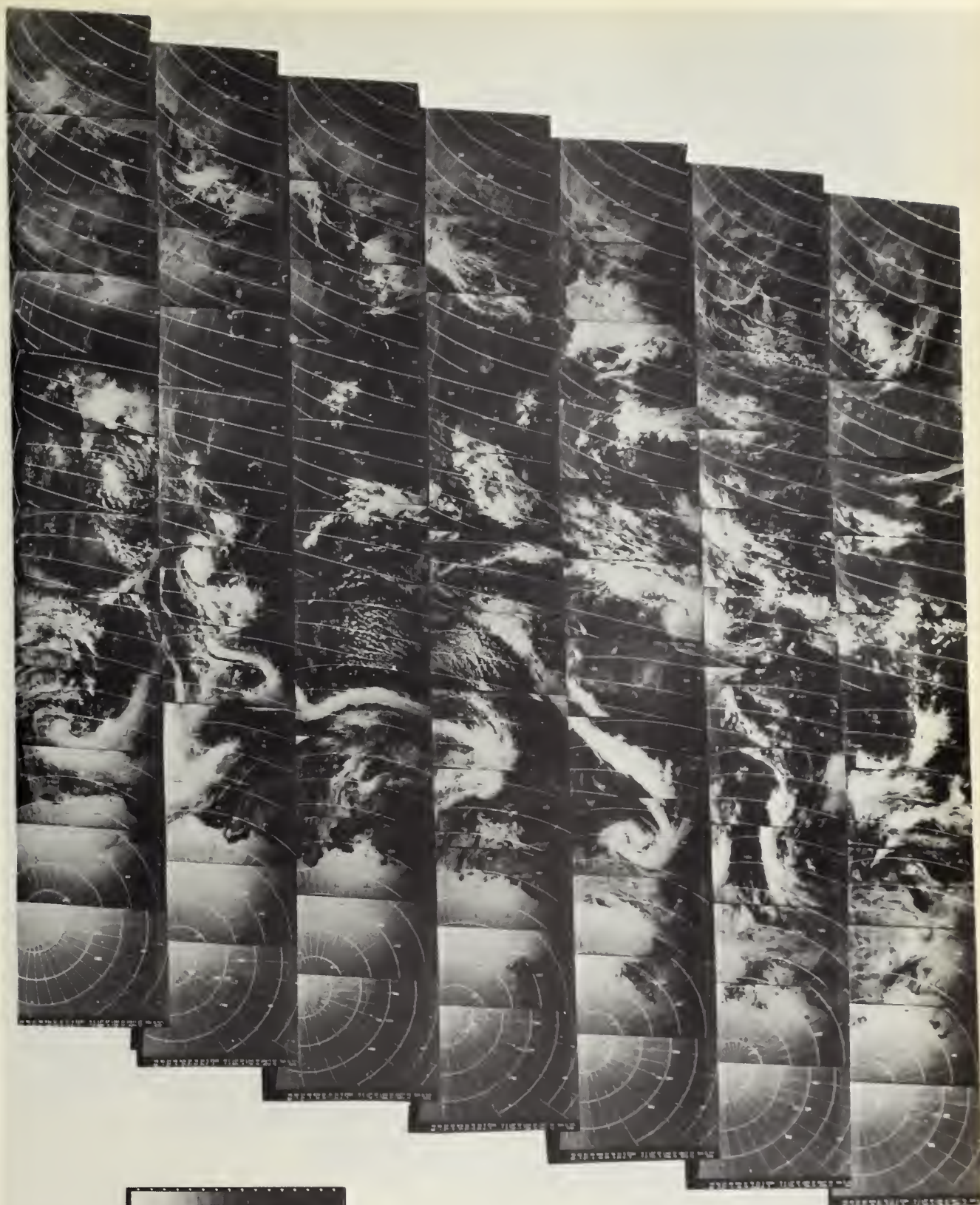
26 JANUARY 1968



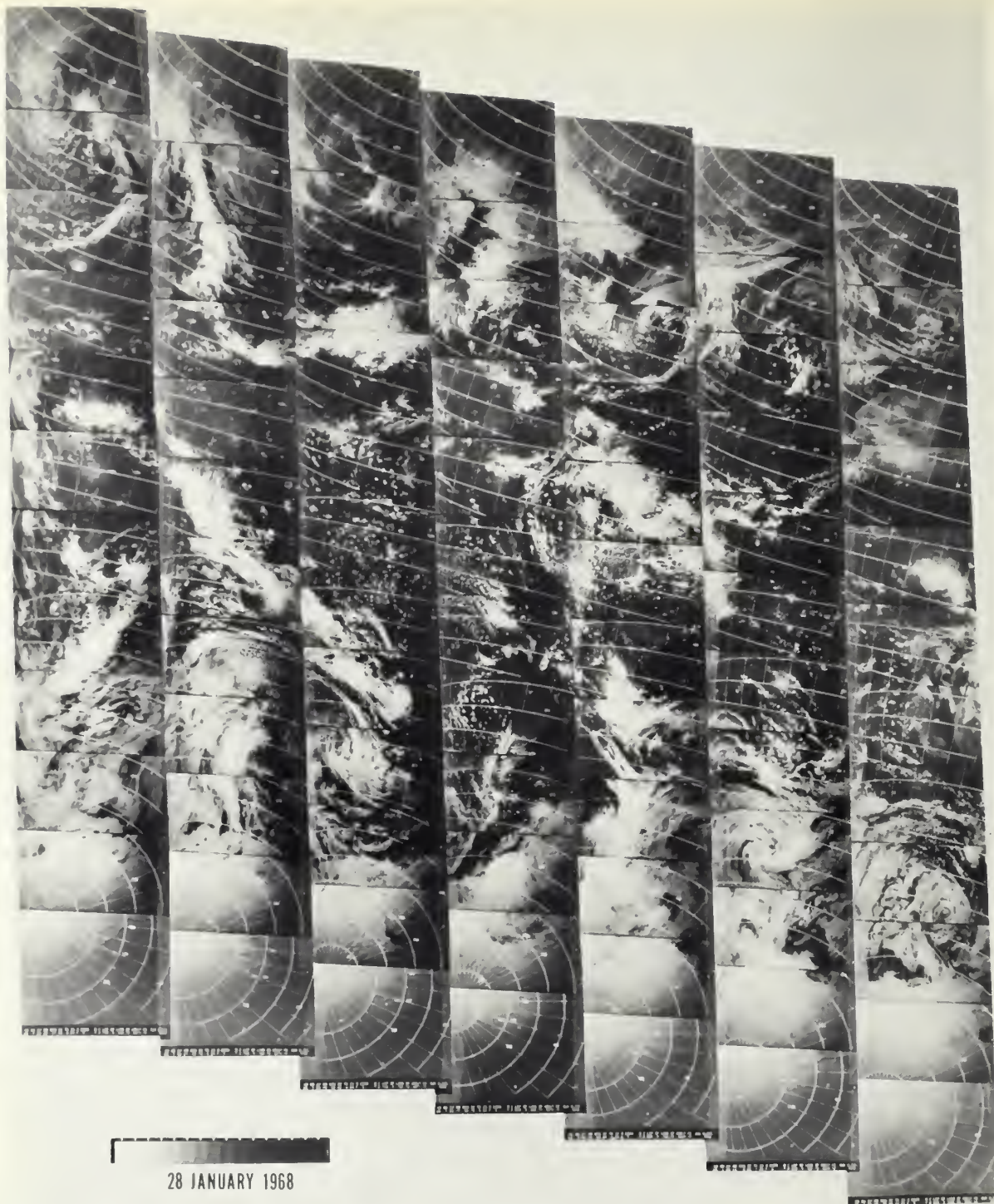
26 JANUARY 1968



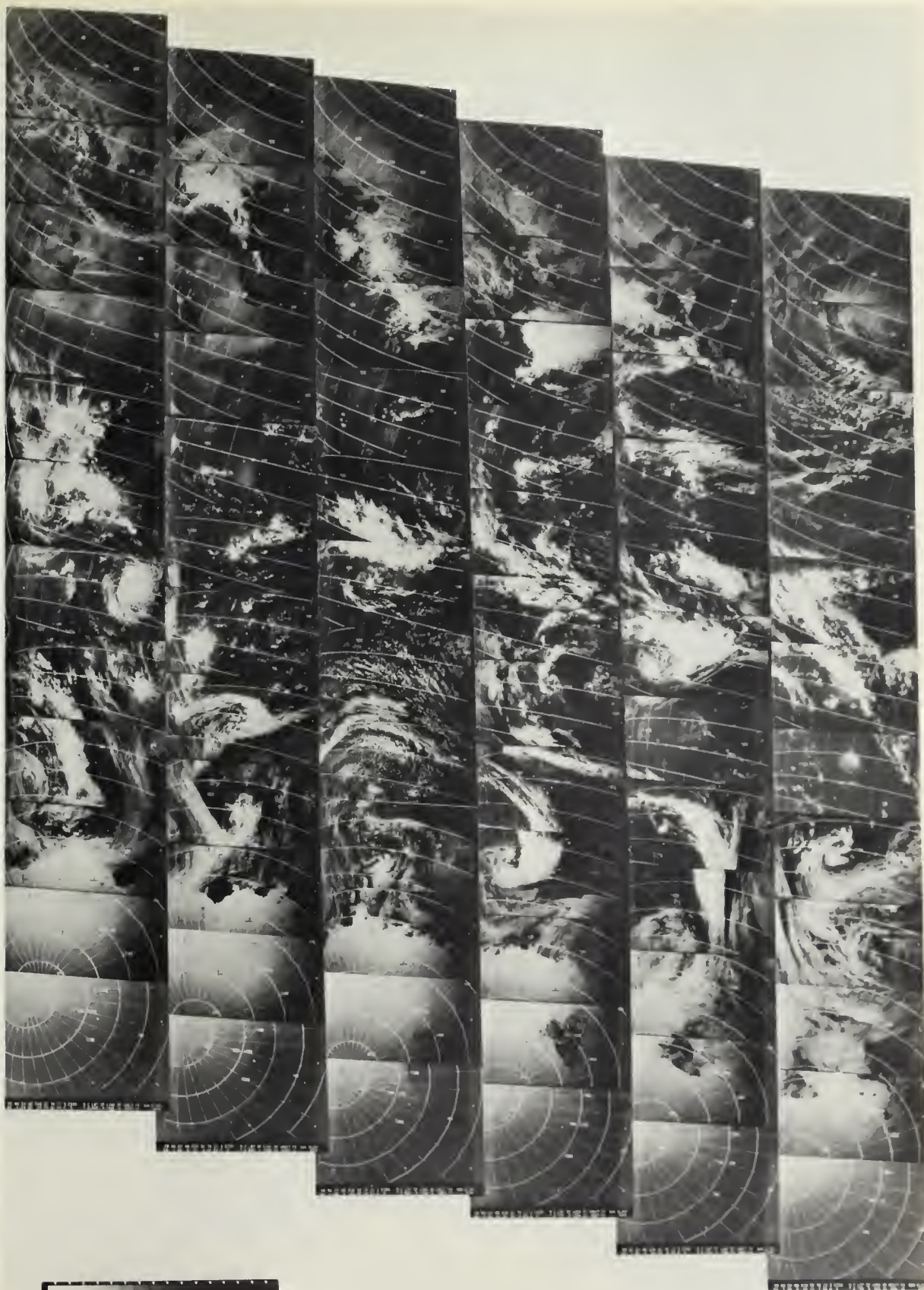
27 JANUARY 1968



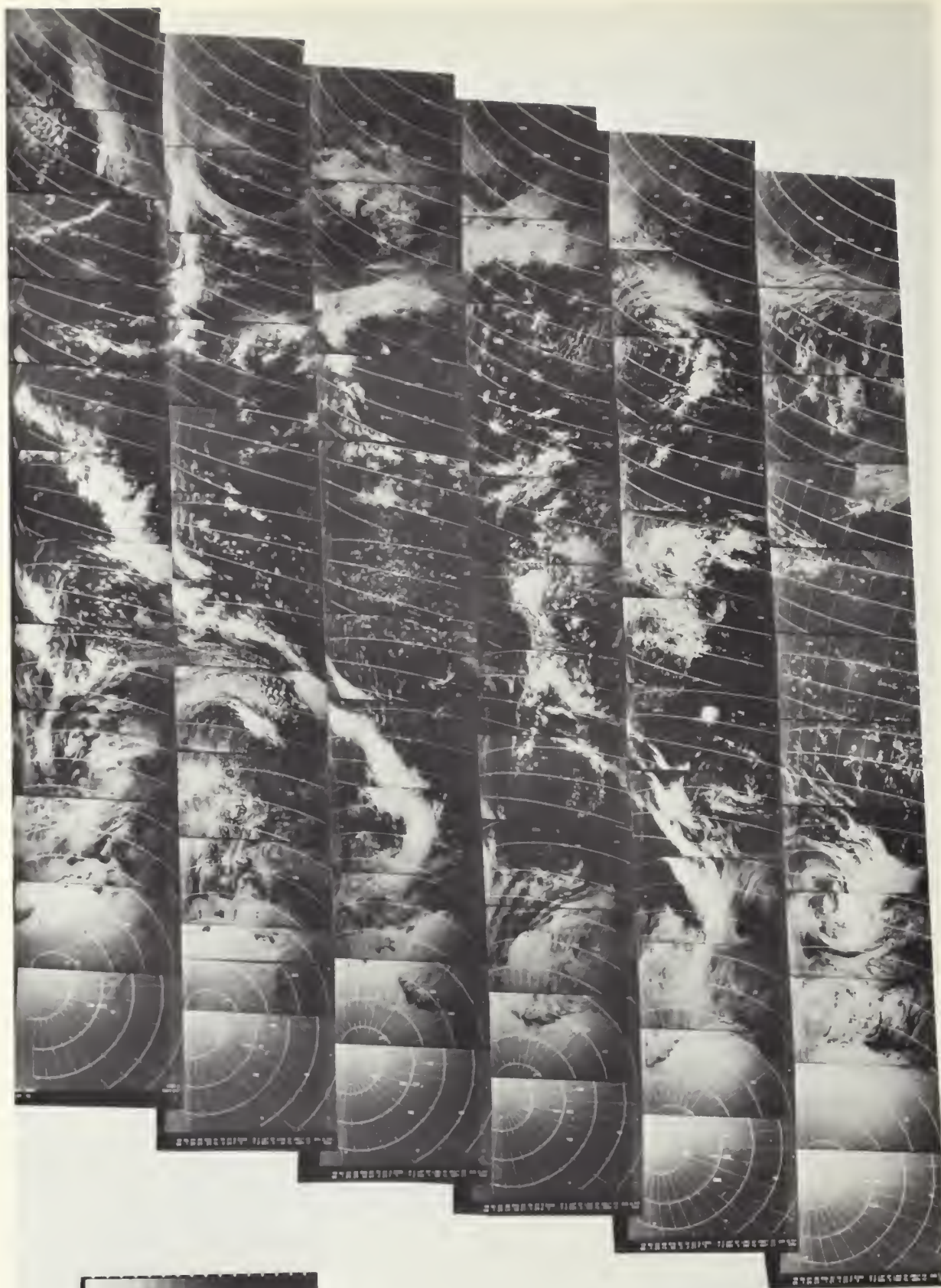
27 JANUARY 1968



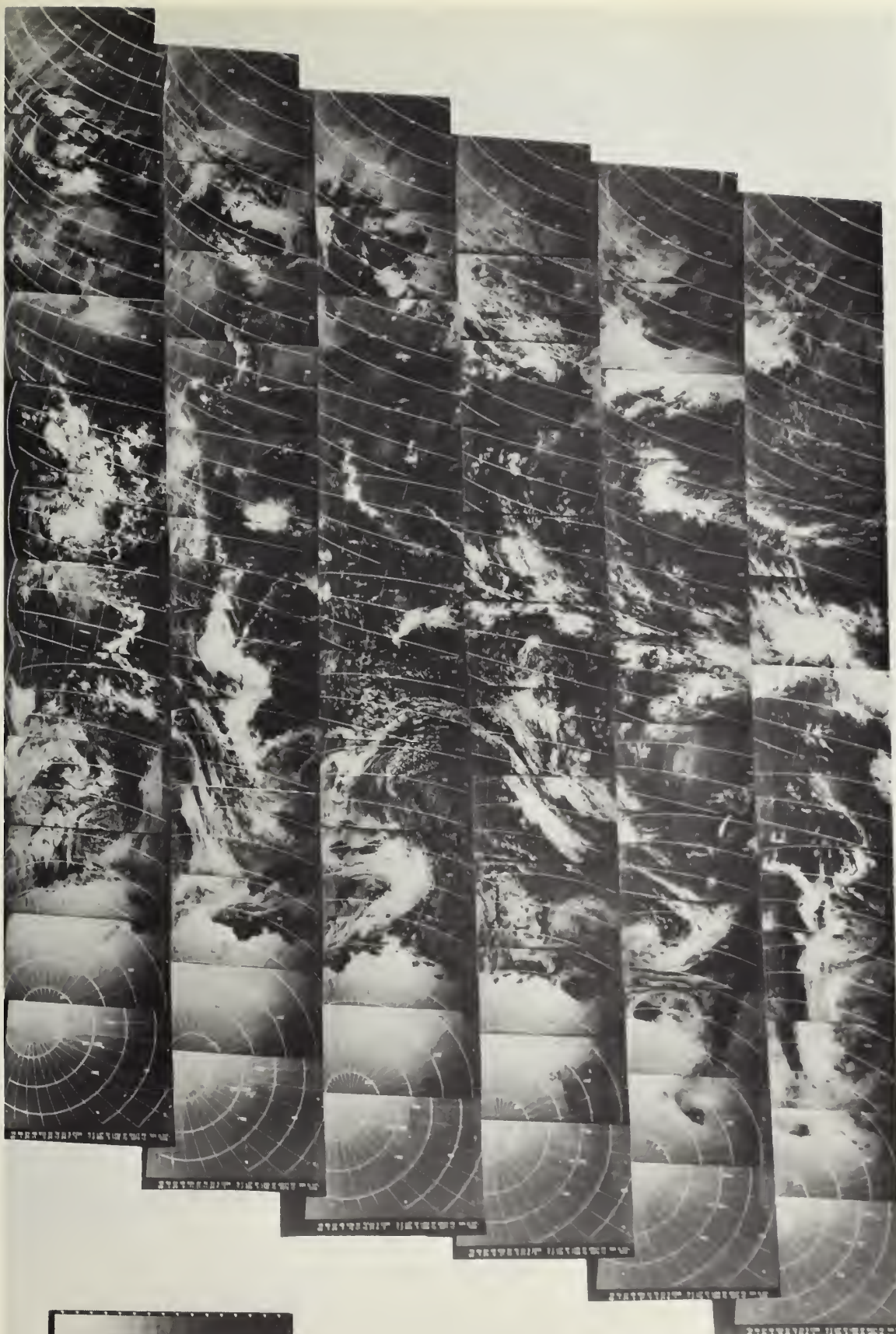
28 JANUARY 1968



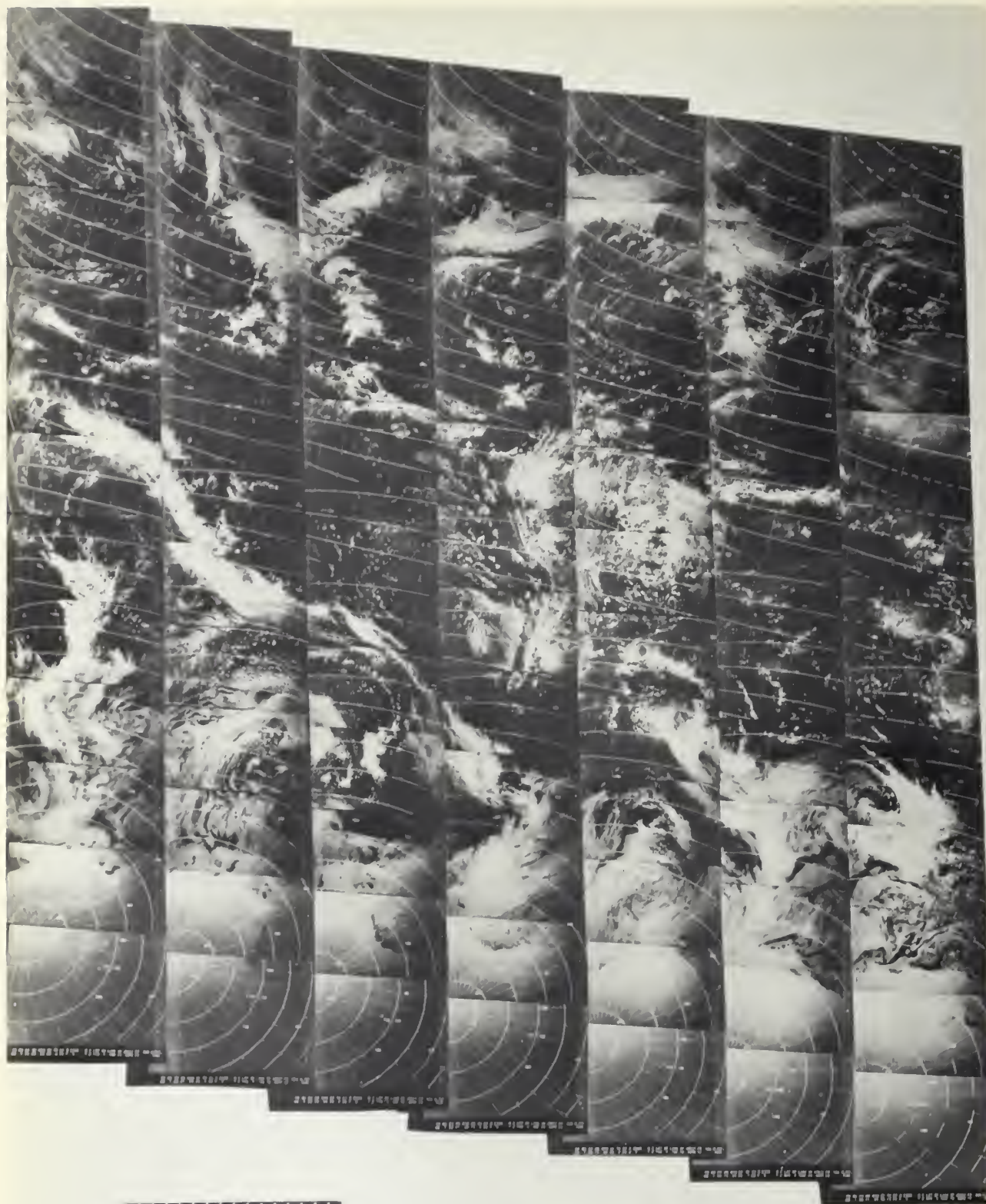
28 JANUARY 1968



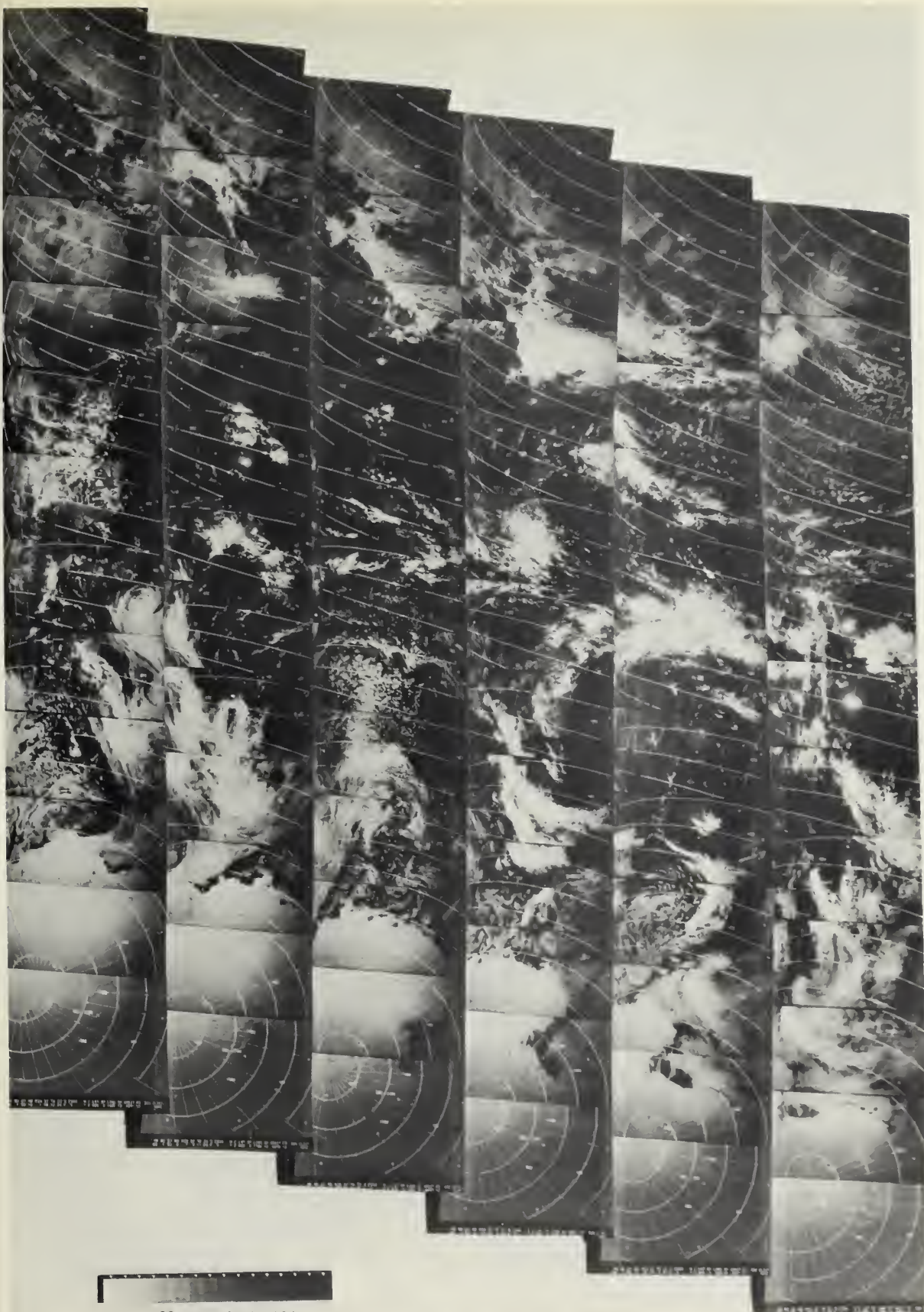
29 JANUARY 1968



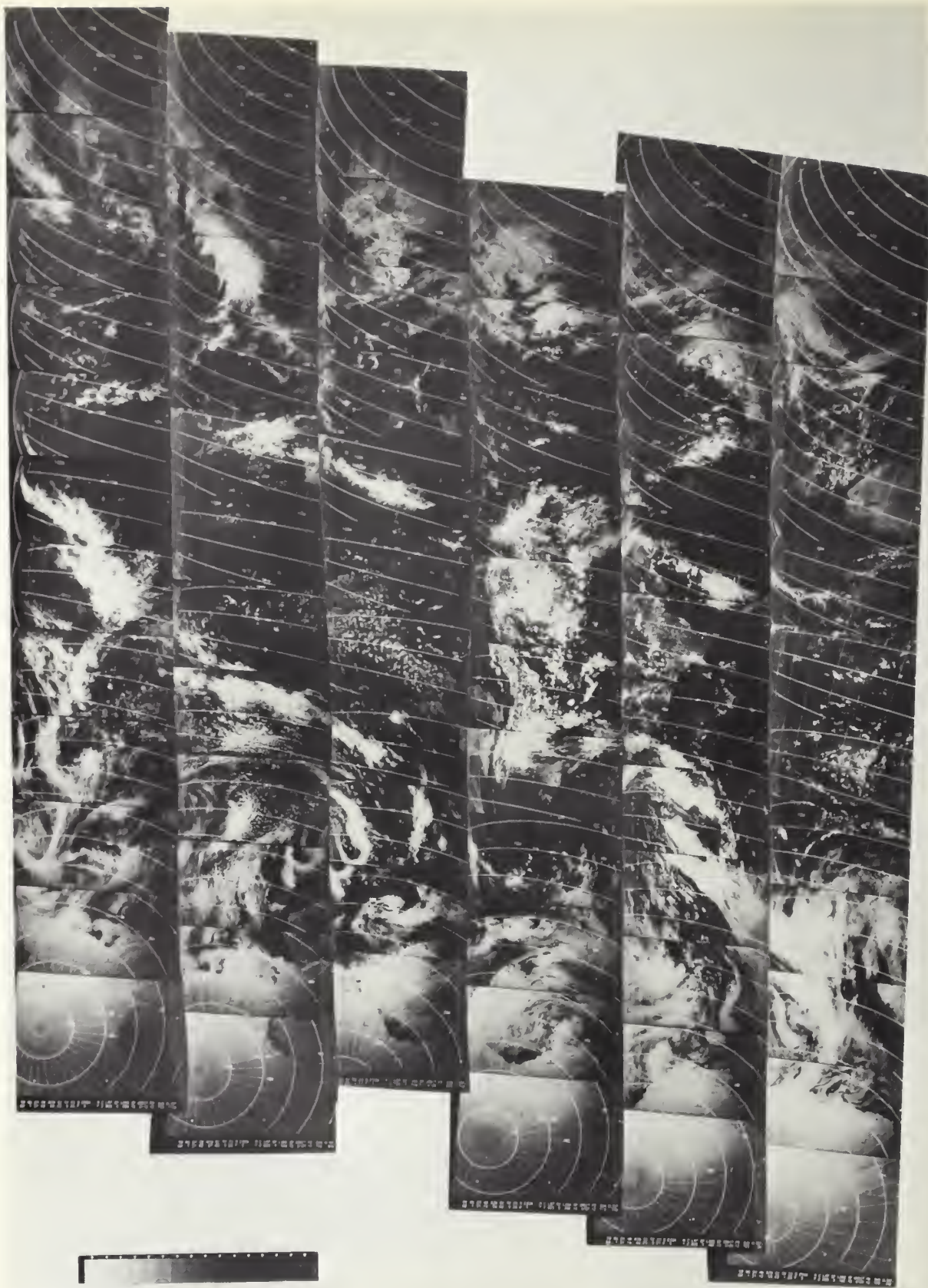
29 JANUARY 1968



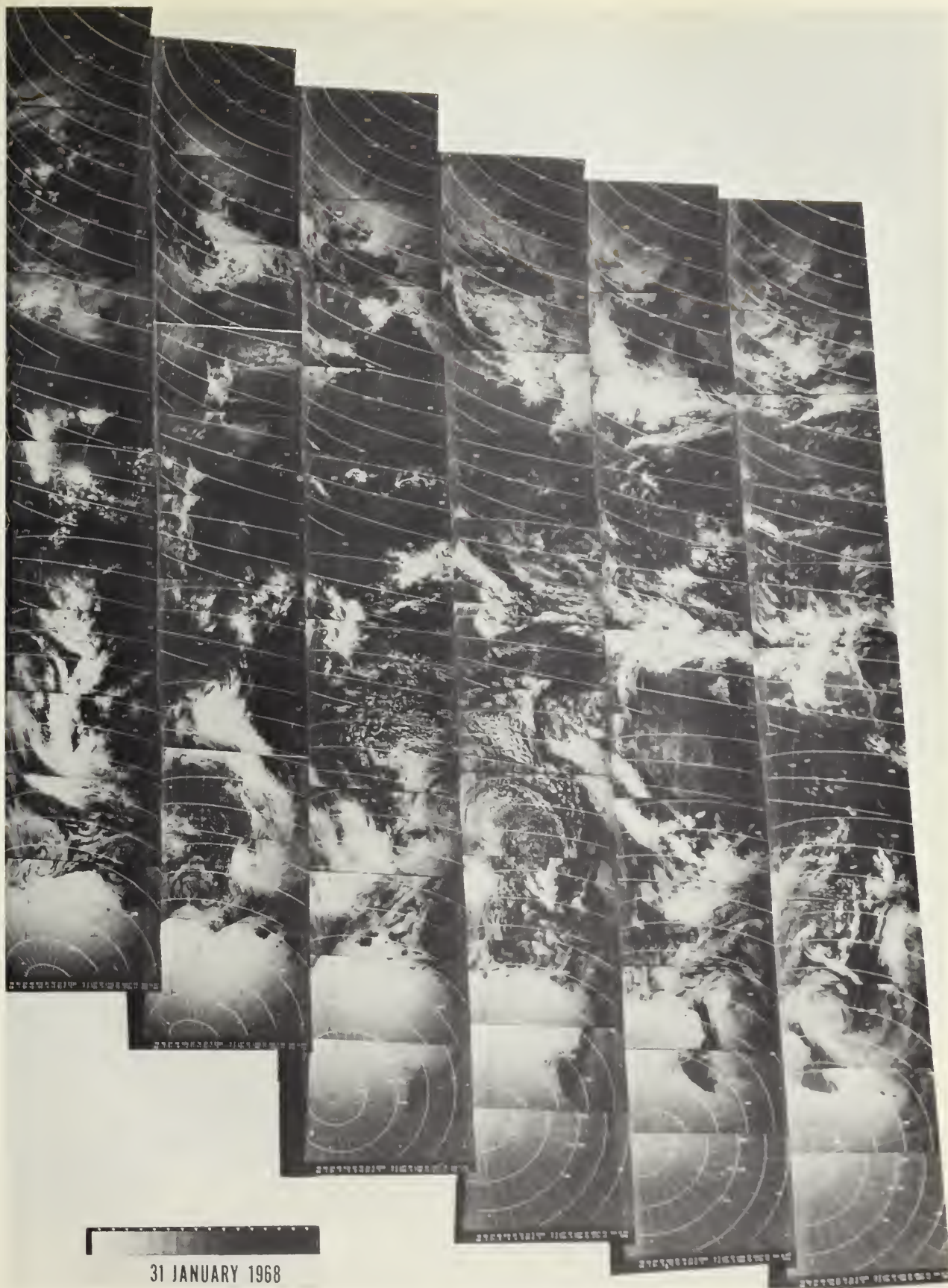
30 JANUARY 1968



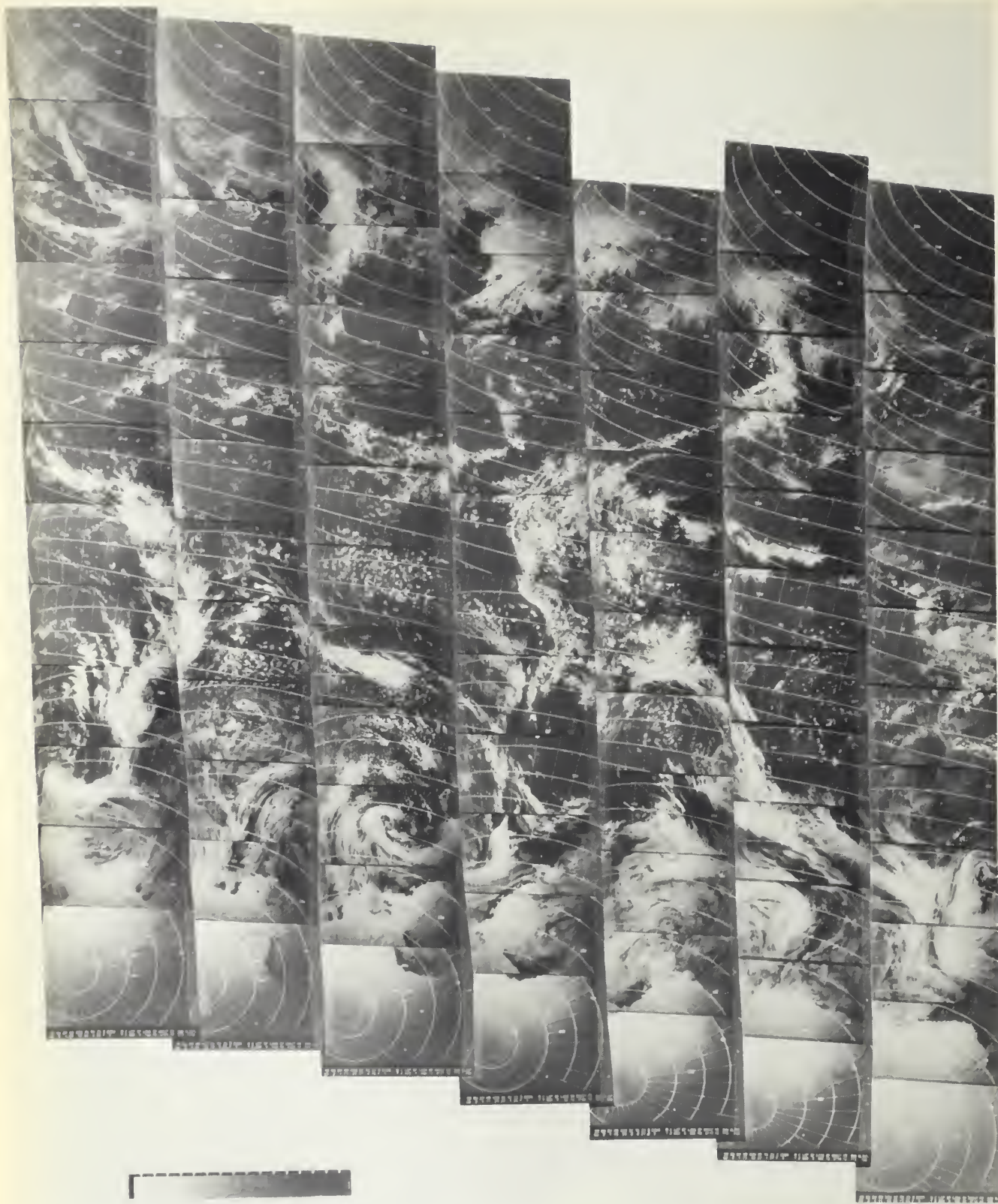
30 JANUARY 1968



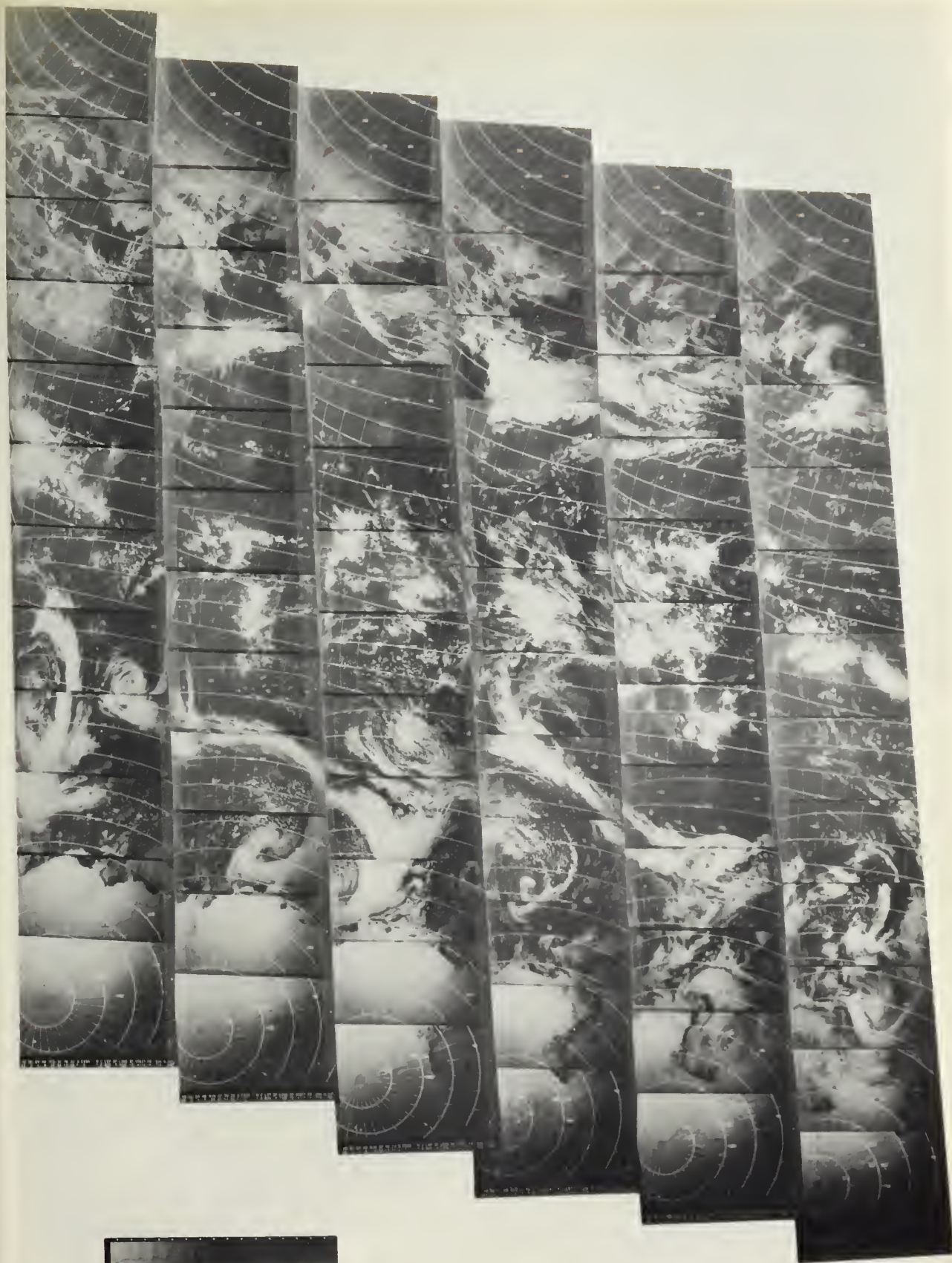
31 JANUARY 1968



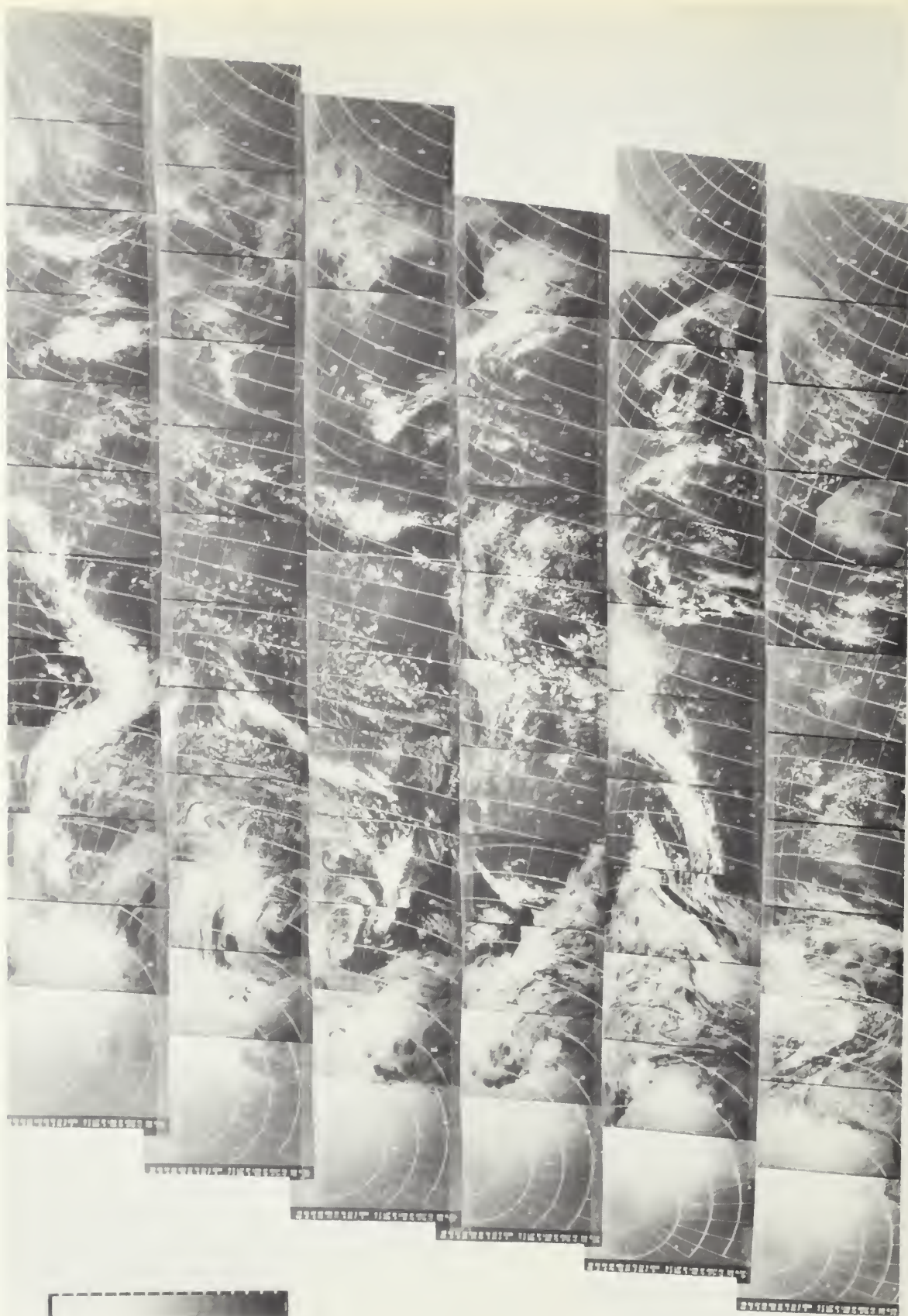
31 JANUARY 1968



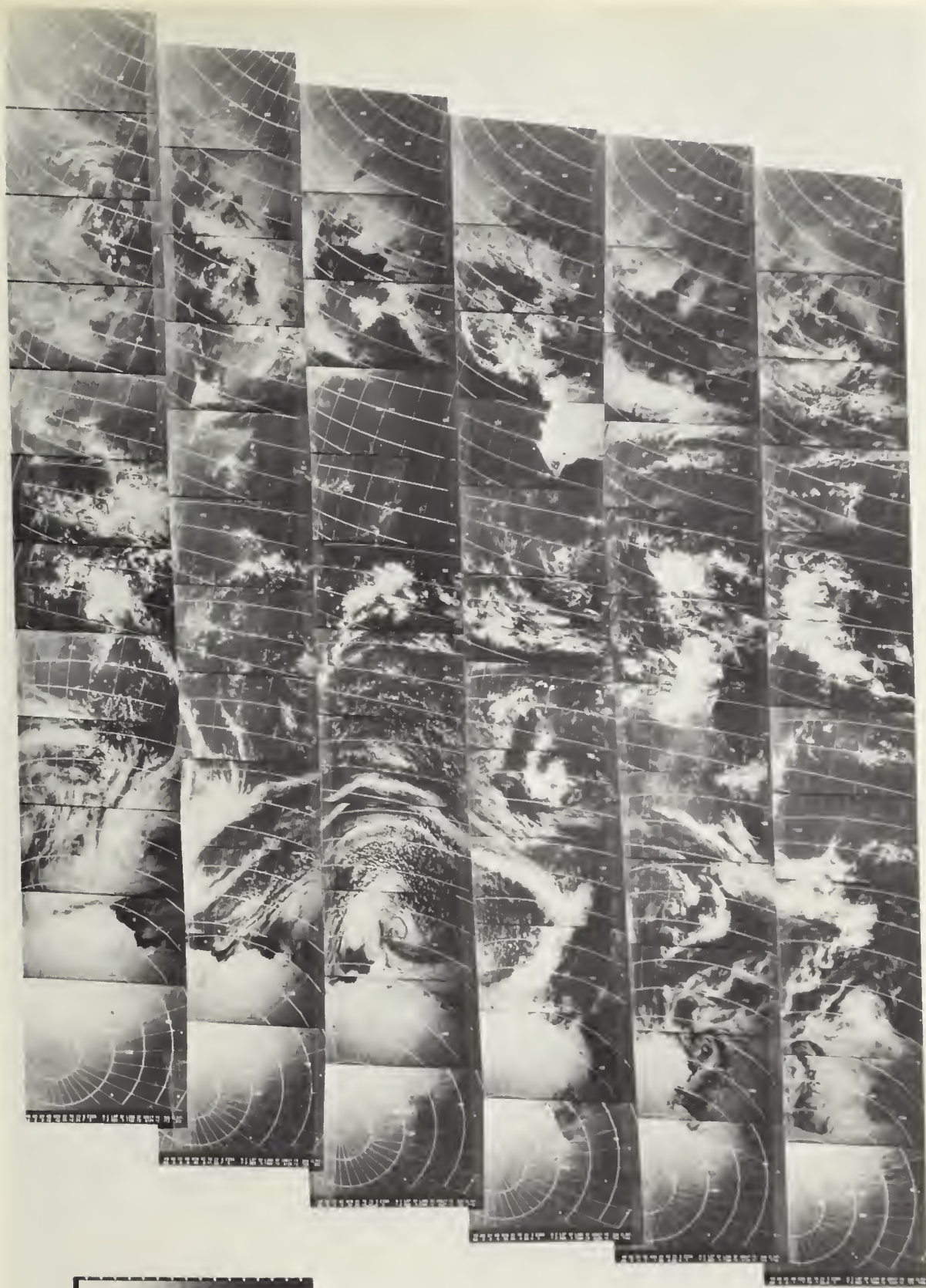
1 FEBRUARY 1968



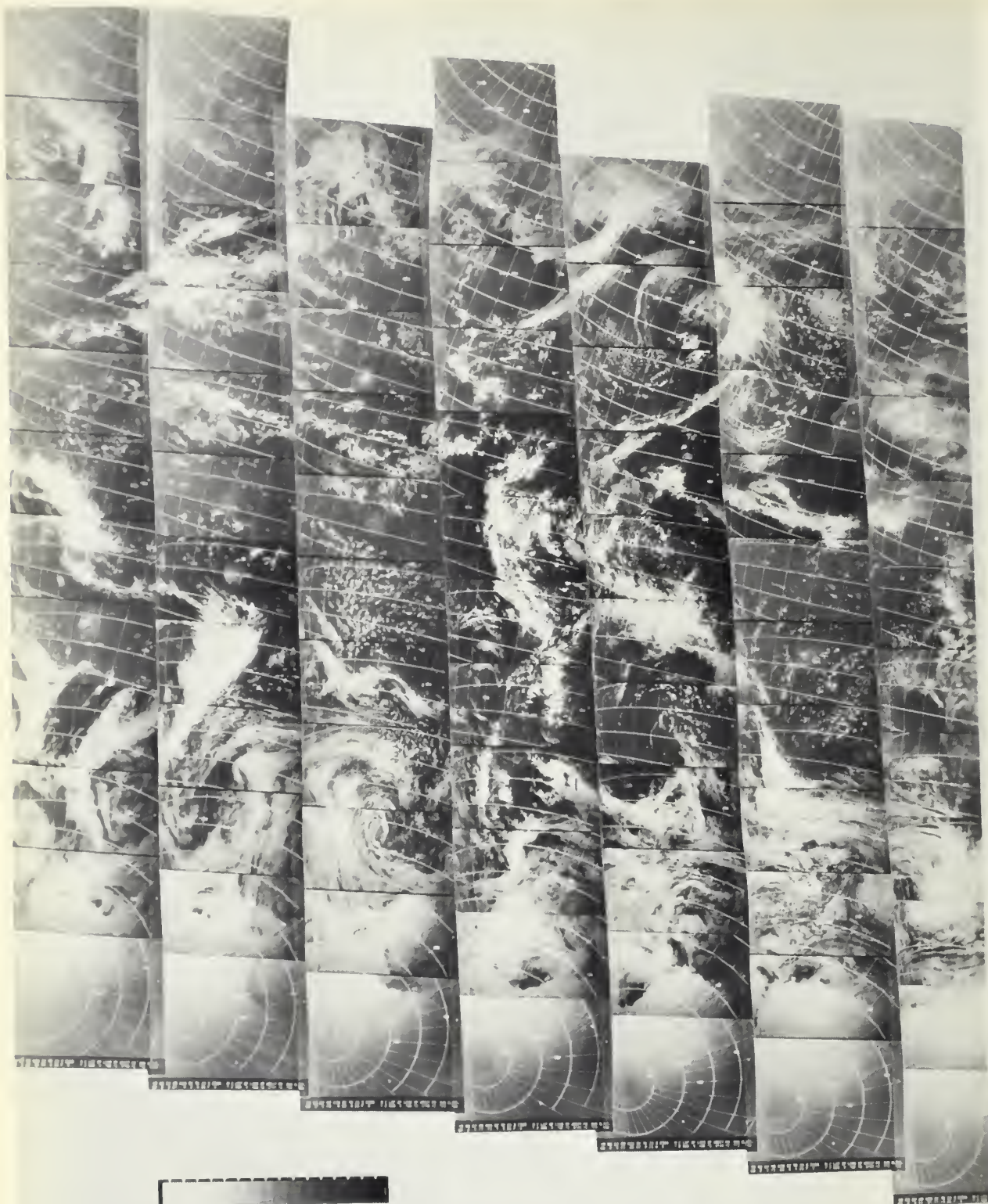
1 FEBRUARY 1968



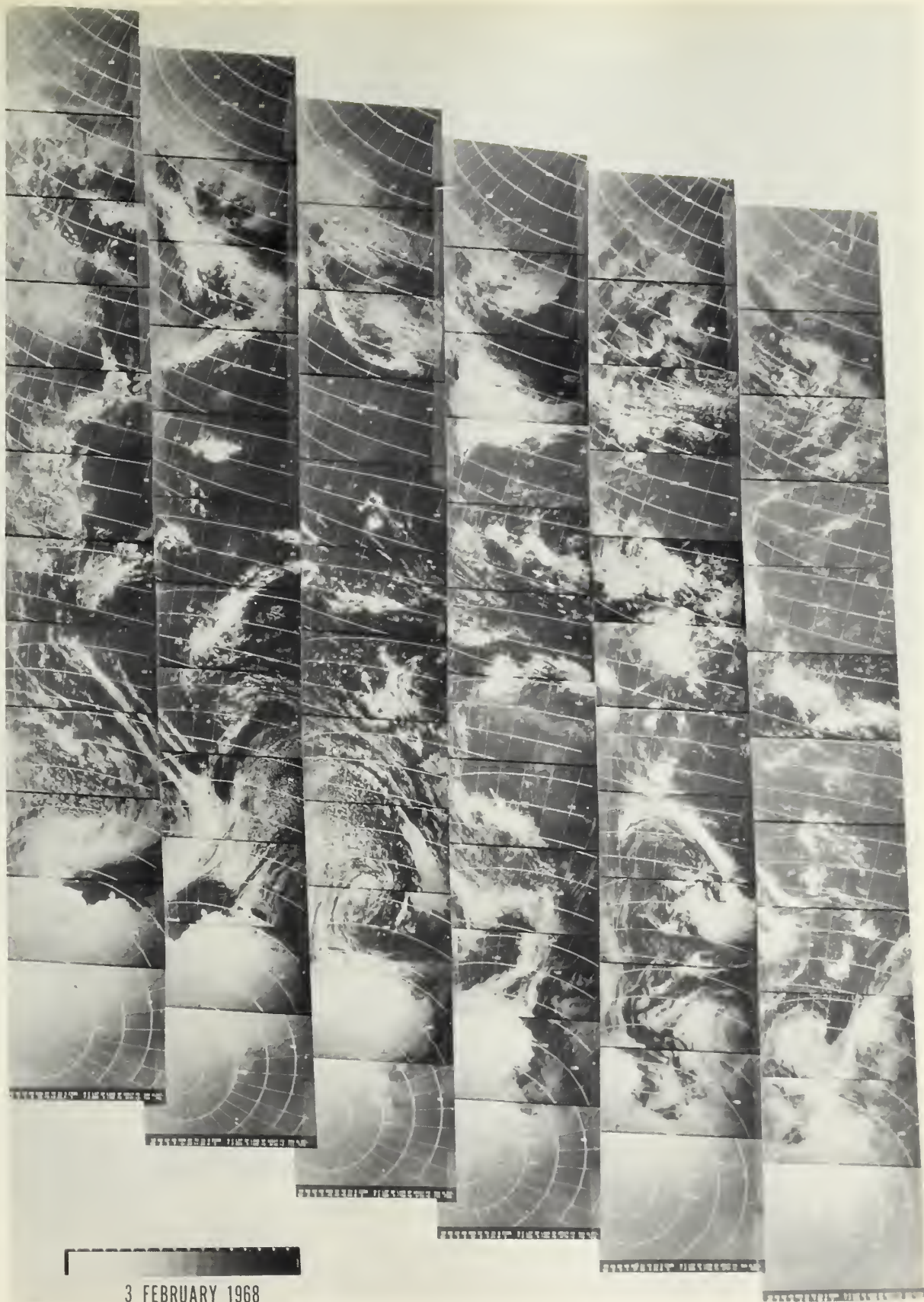
2 FEBRUARY 1968



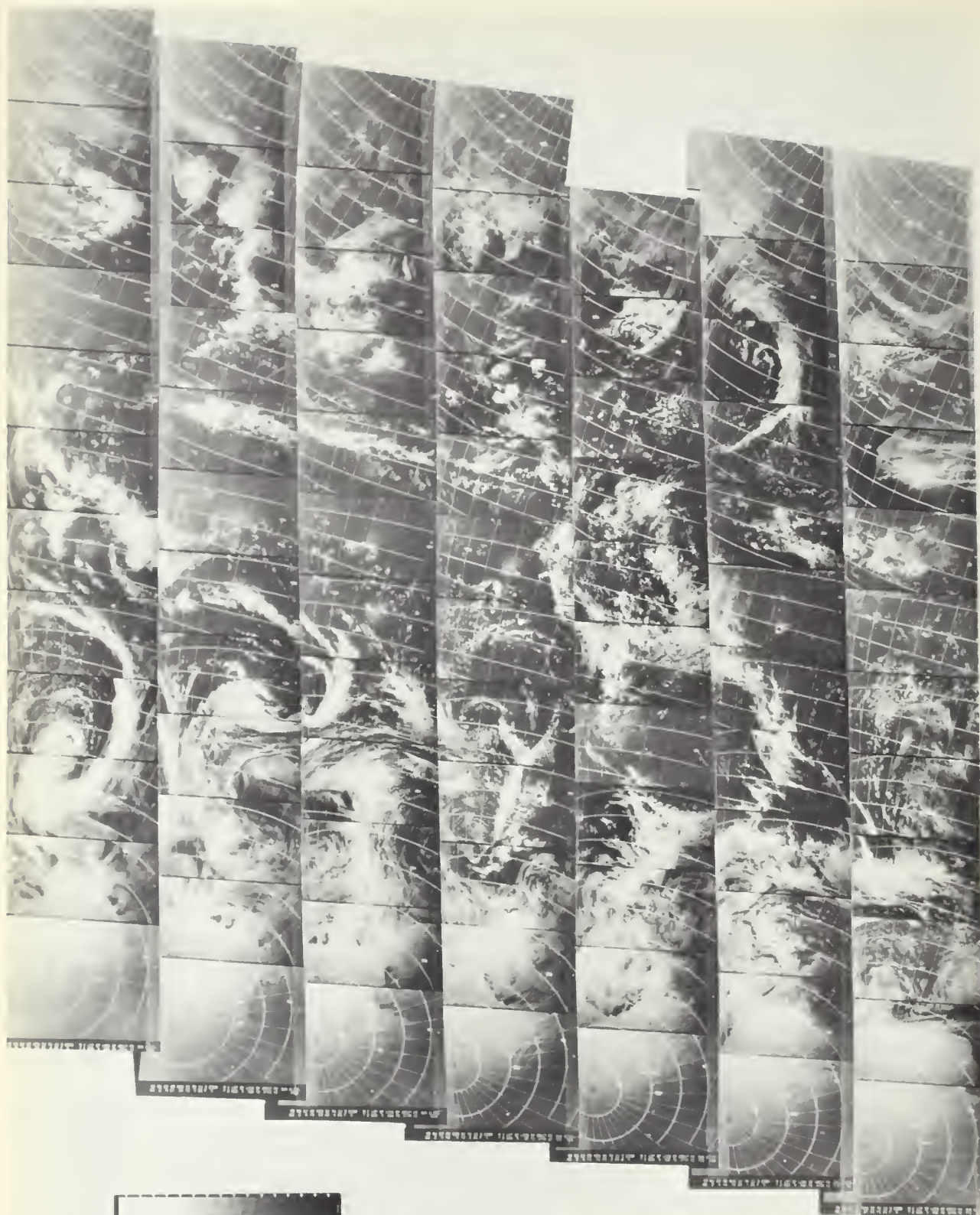
2 FEBRUARY 1968



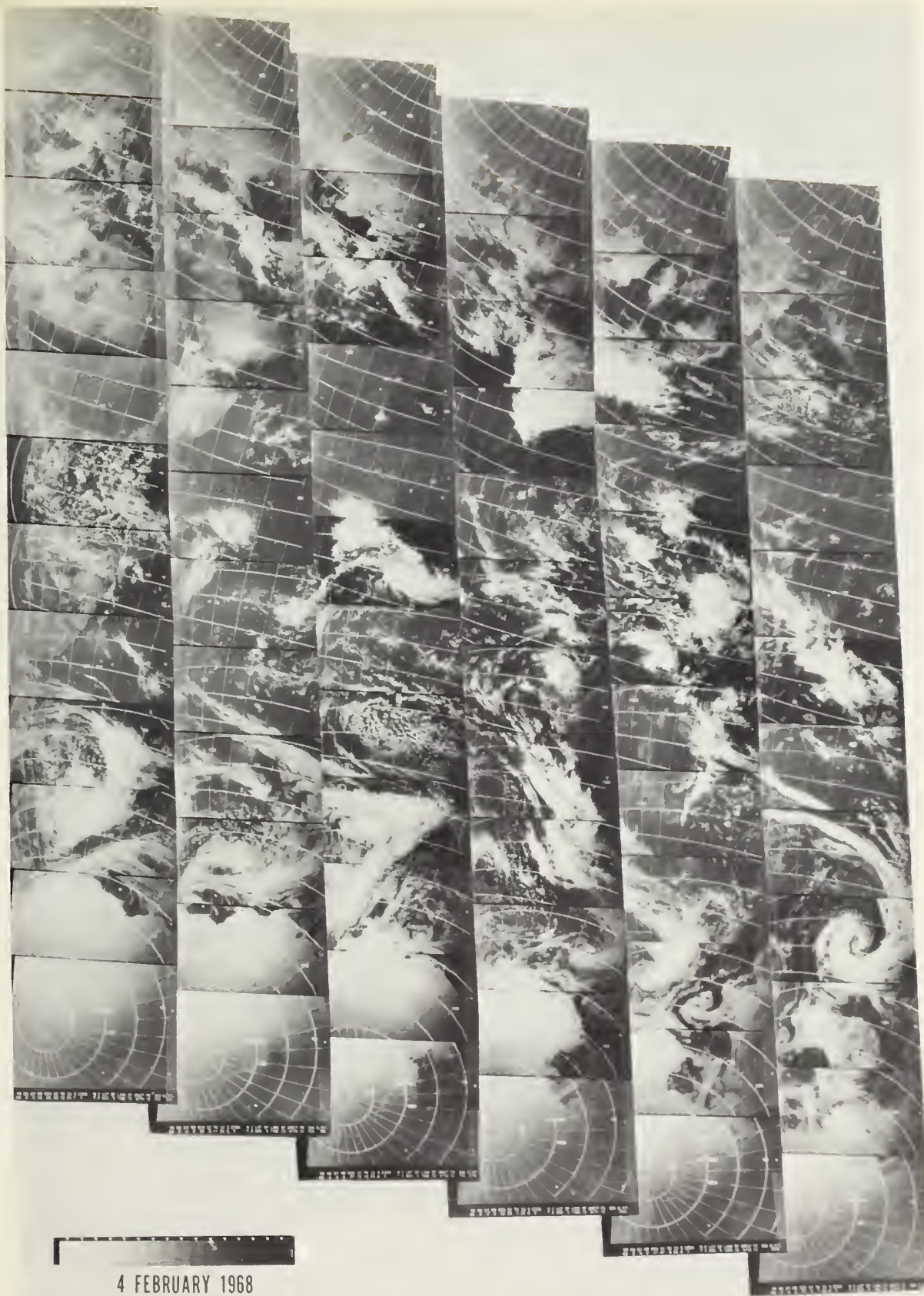
3 FEBRUARY 1968



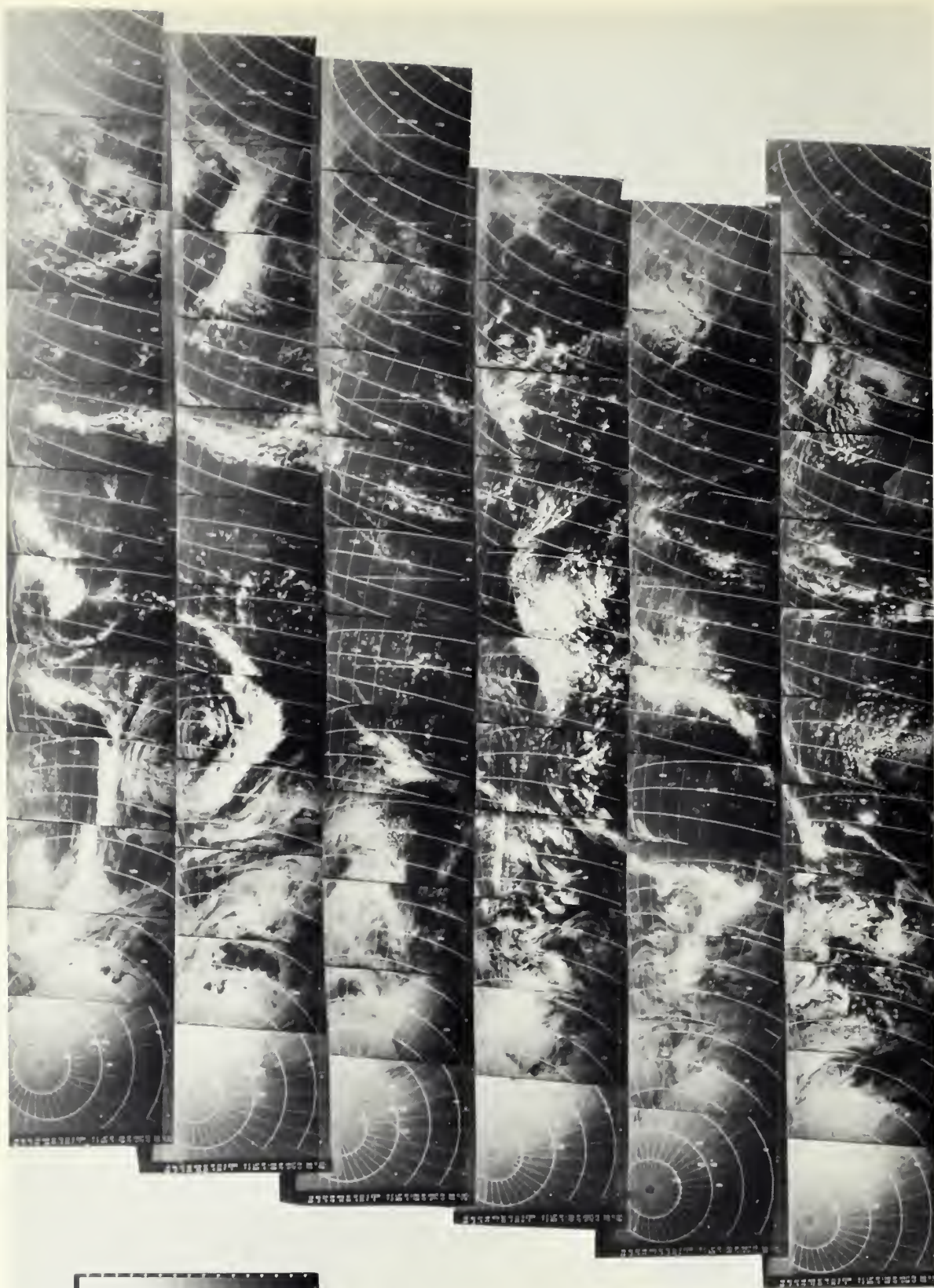
3 FEBRUARY 1968



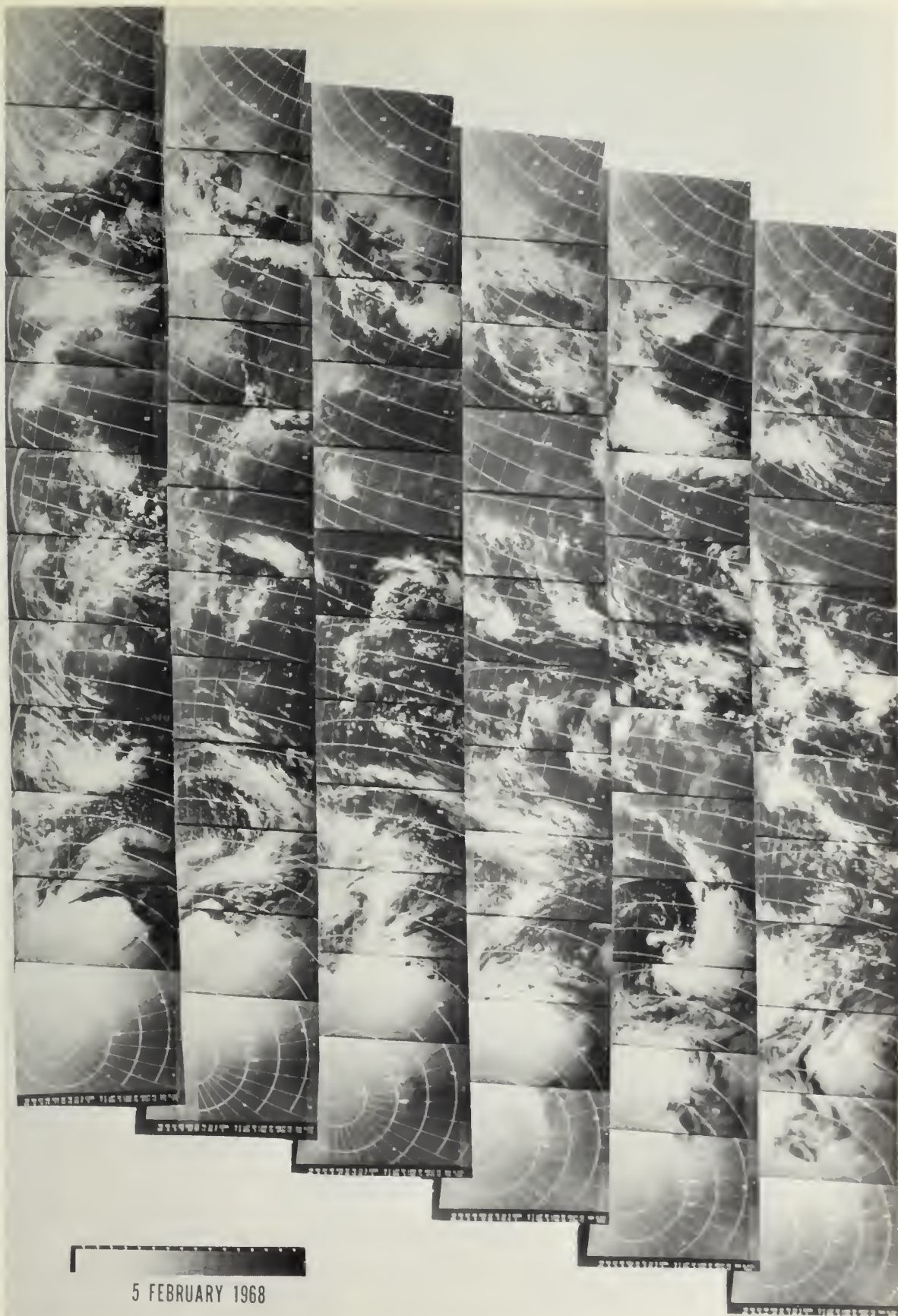
4 FEBRUARY 1968



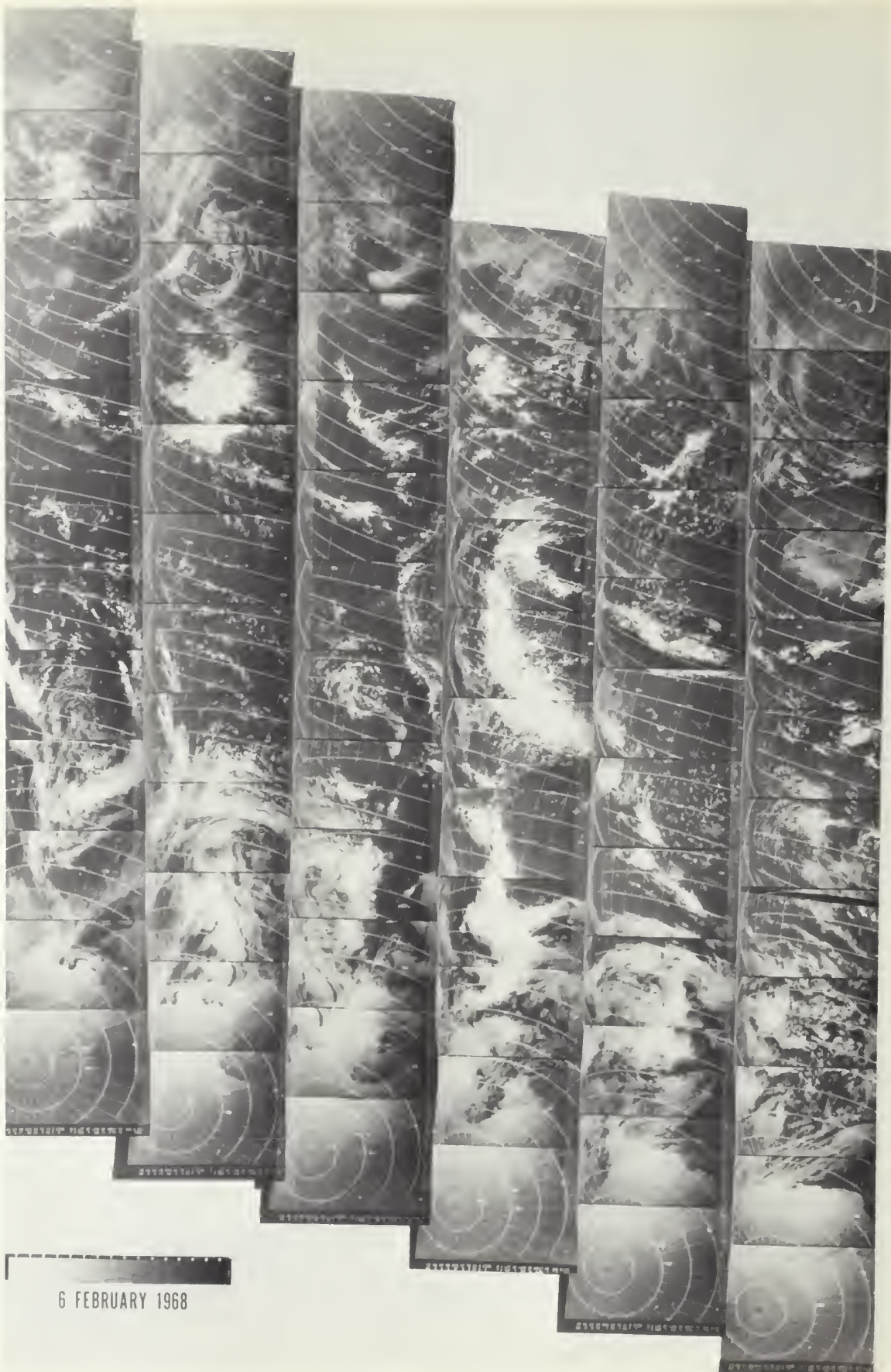
4 FEBRUARY 1968



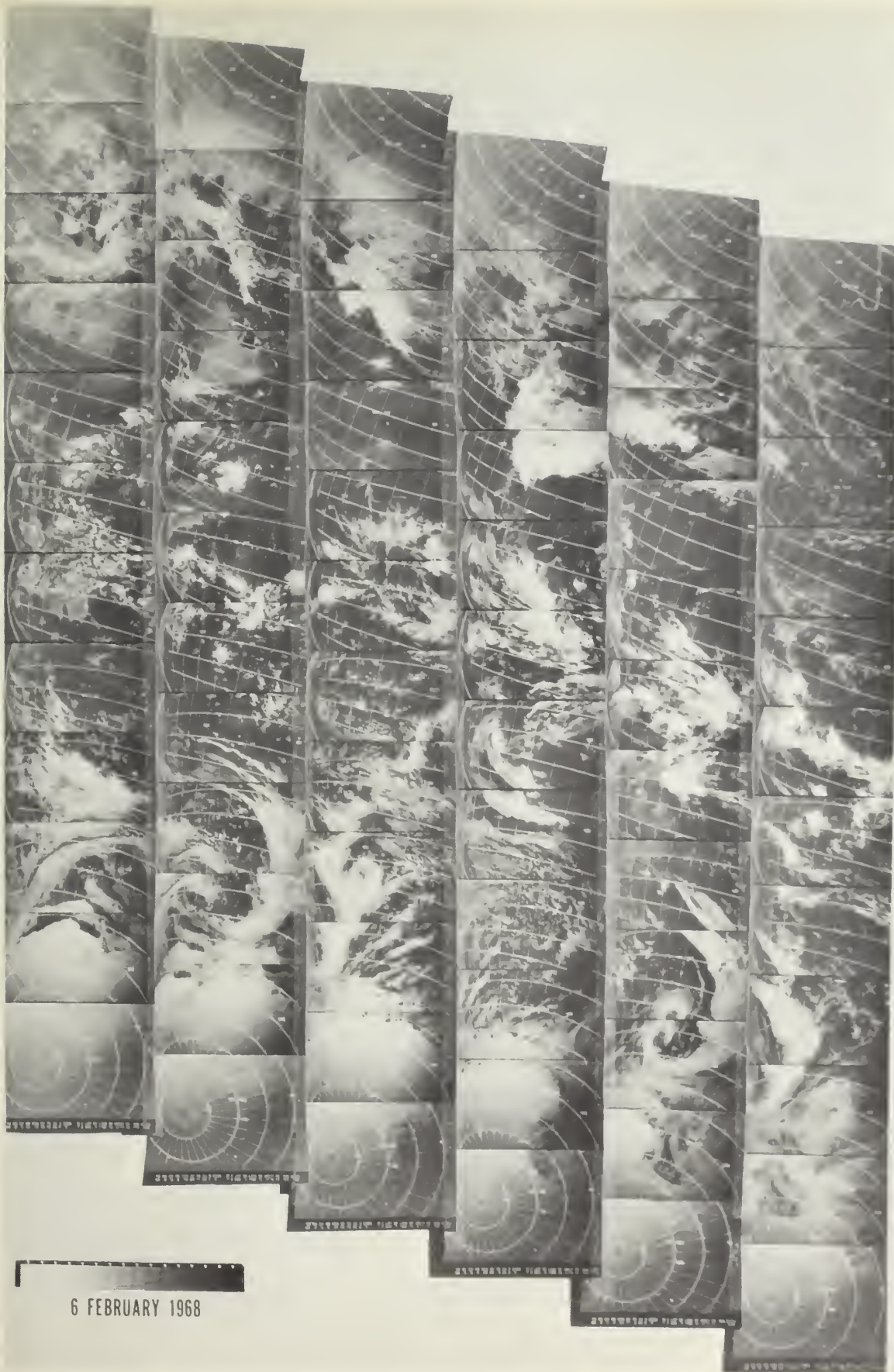
5 FEBRUARY 1968



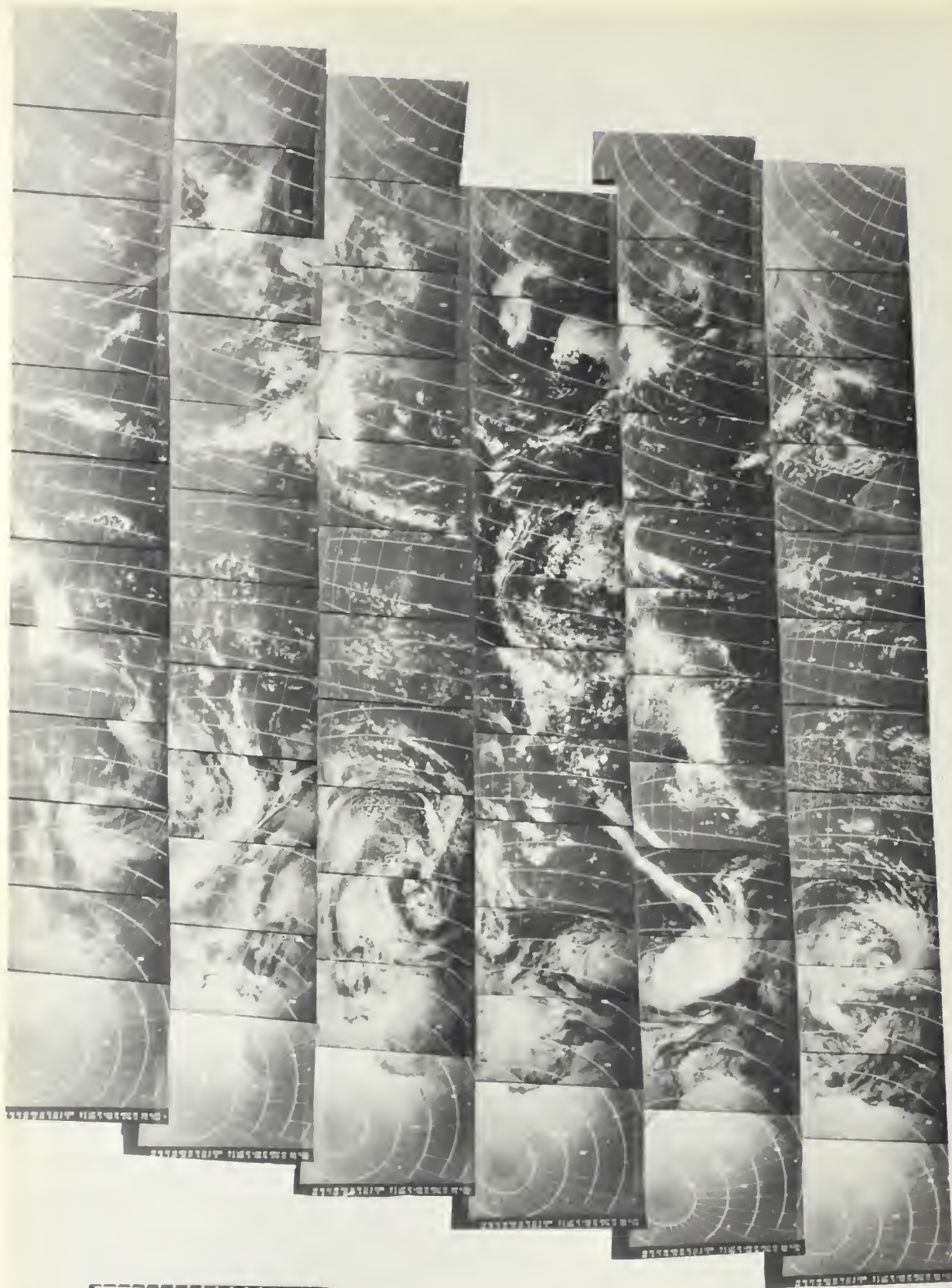
5 FEBRUARY 1968



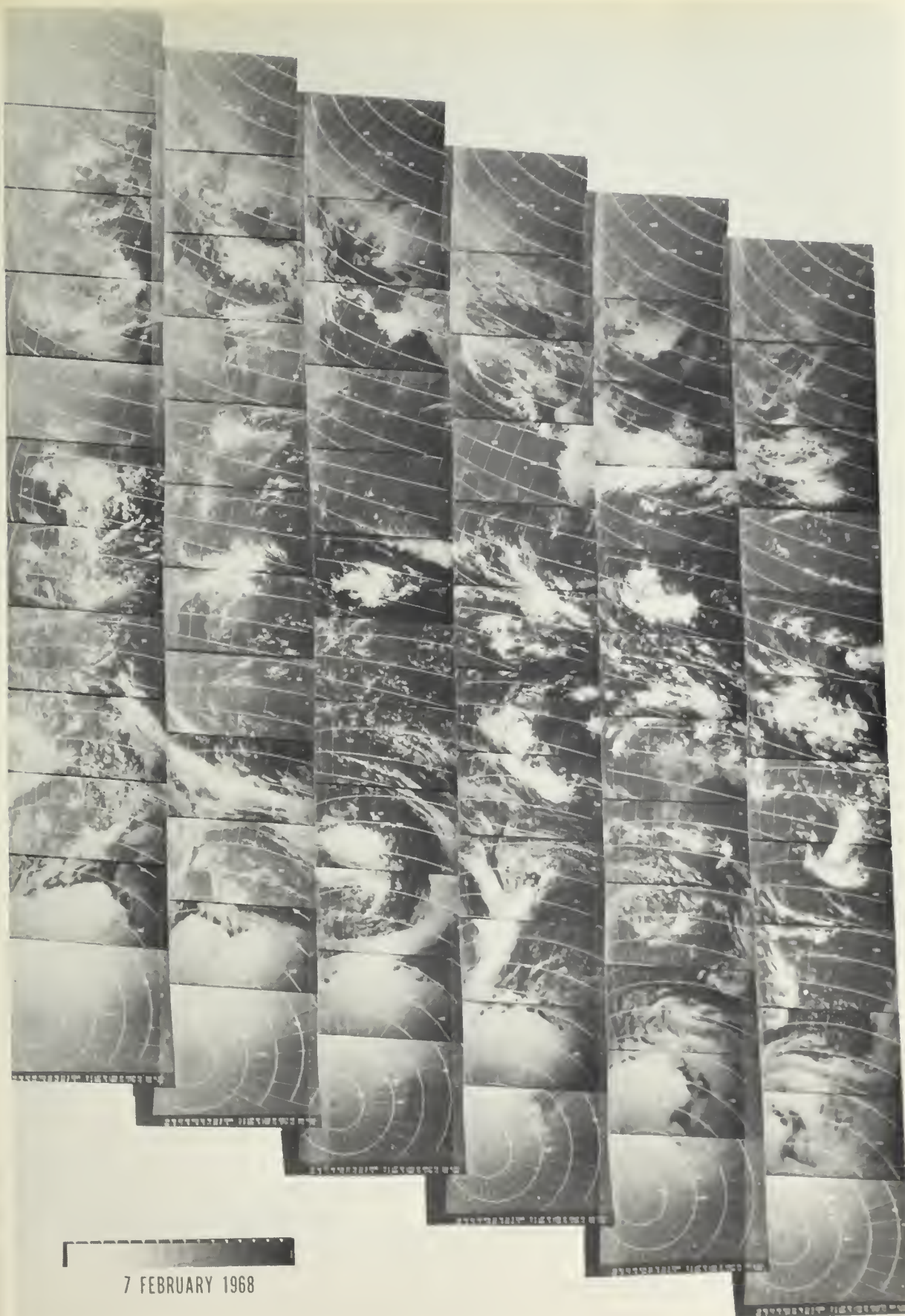
6 FEBRUARY 1968



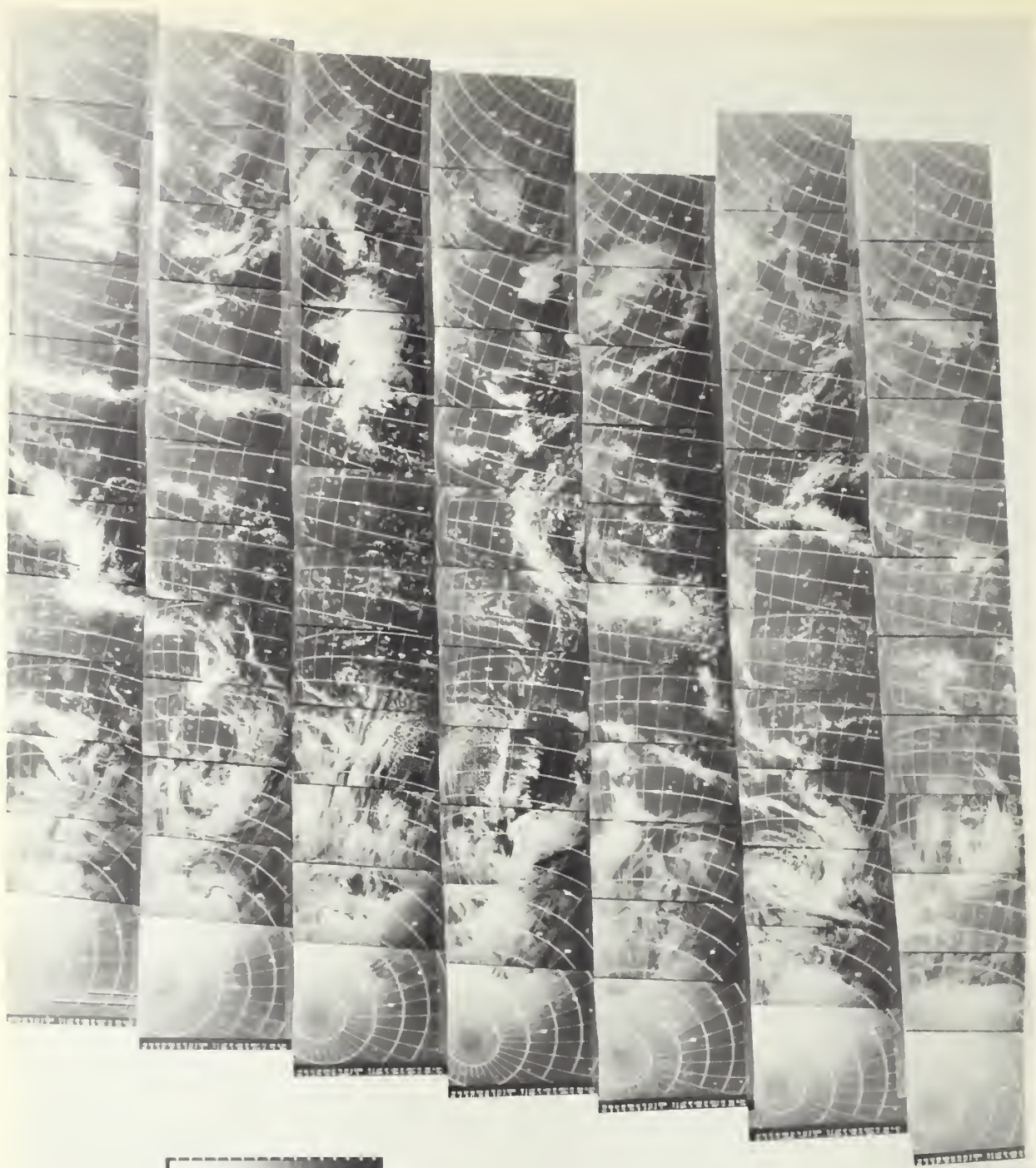
6 FEBRUARY 1968



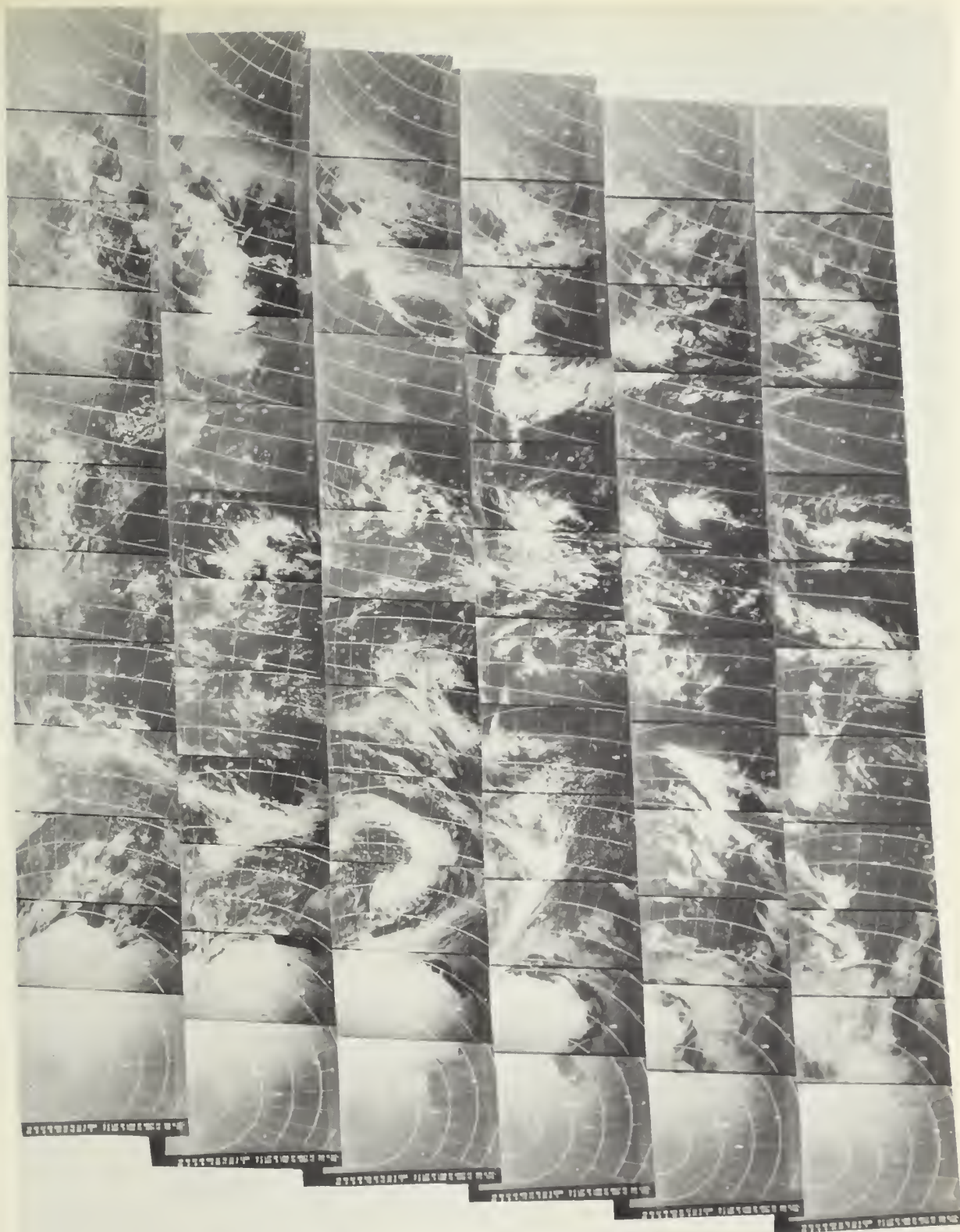
7 FEBRUARY 1968



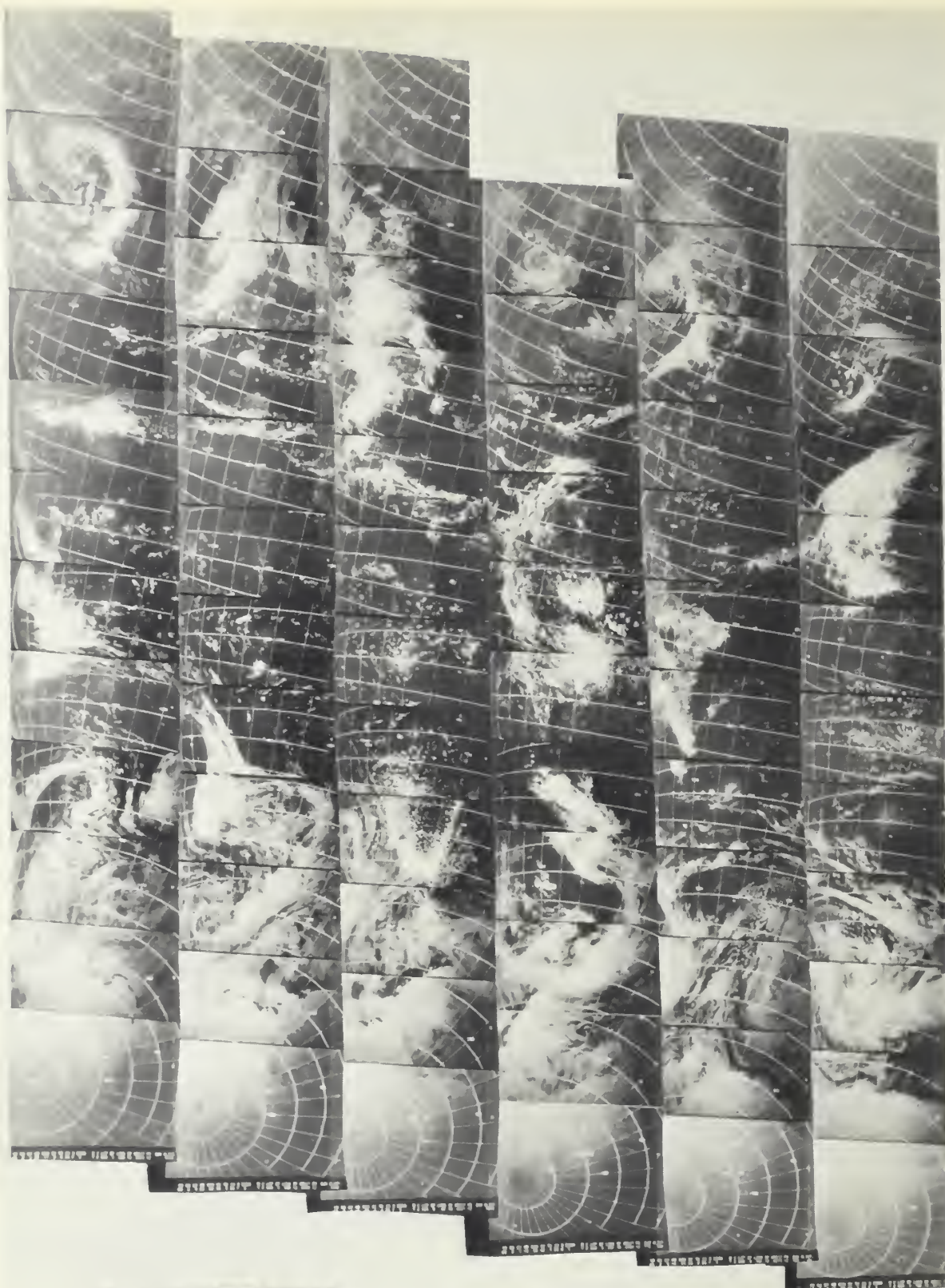
7 FEBRUARY 1968



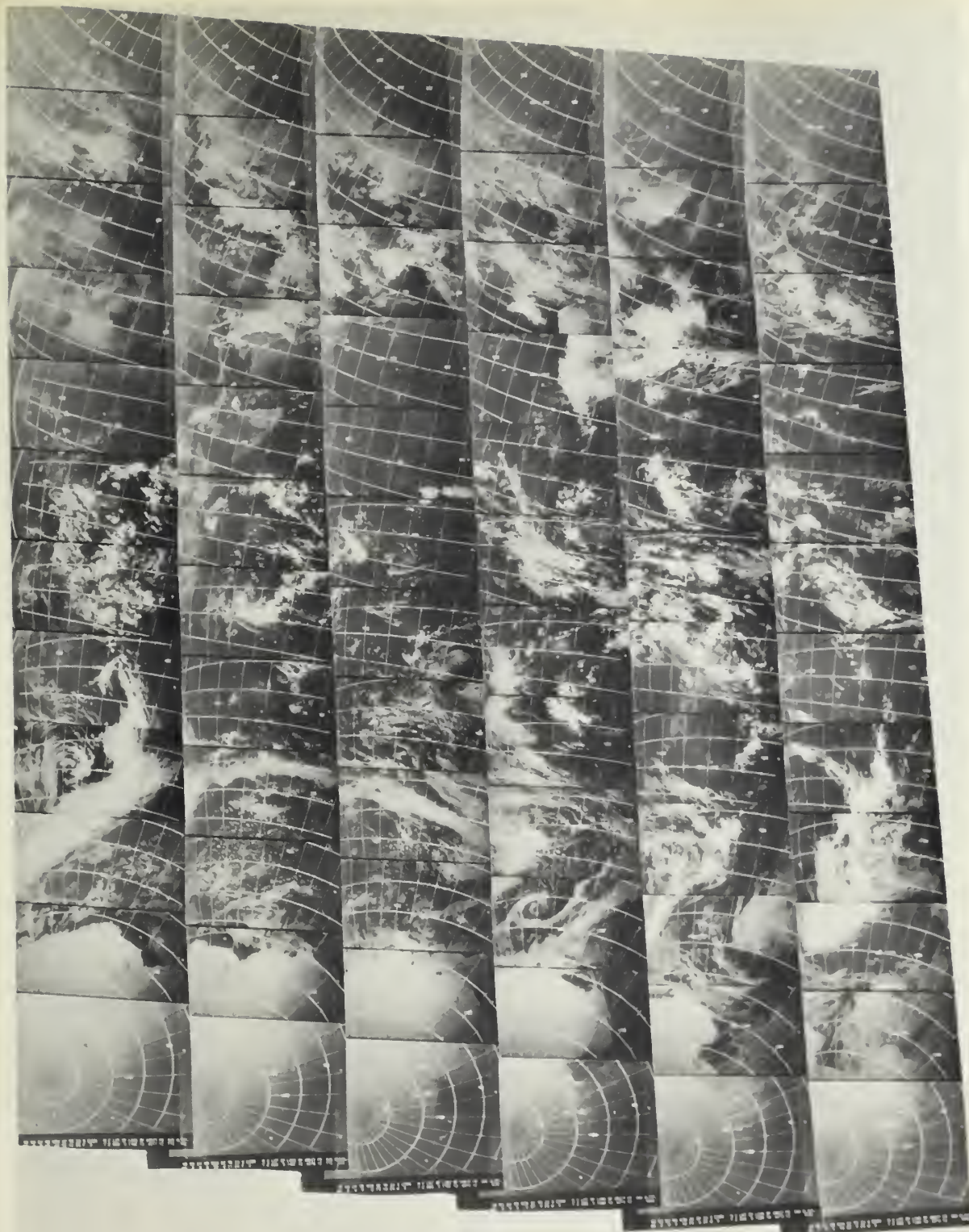
8 FEBRUARY 1968



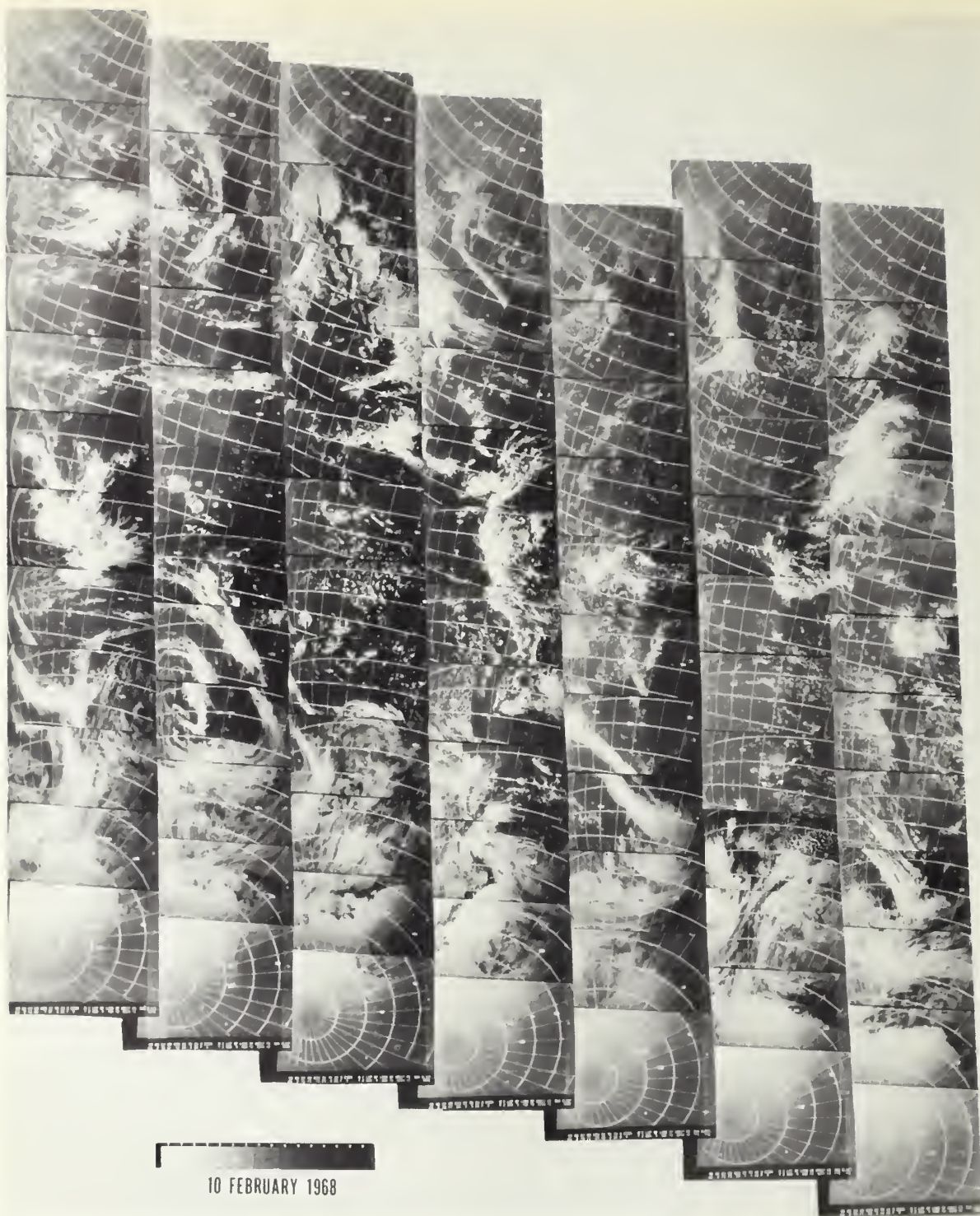
8 FEBRUARY 1968

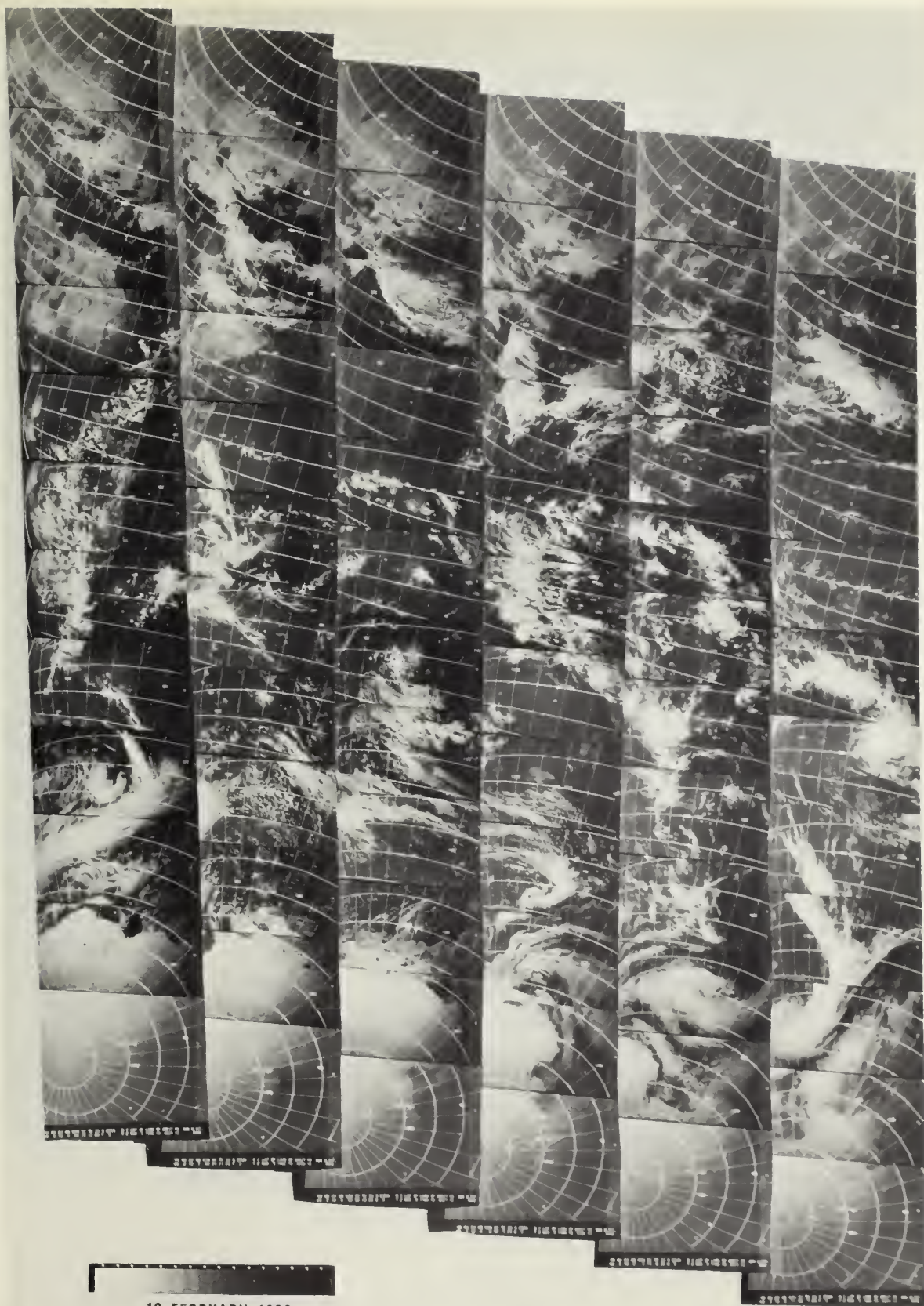


9 FEBRUARY 1968

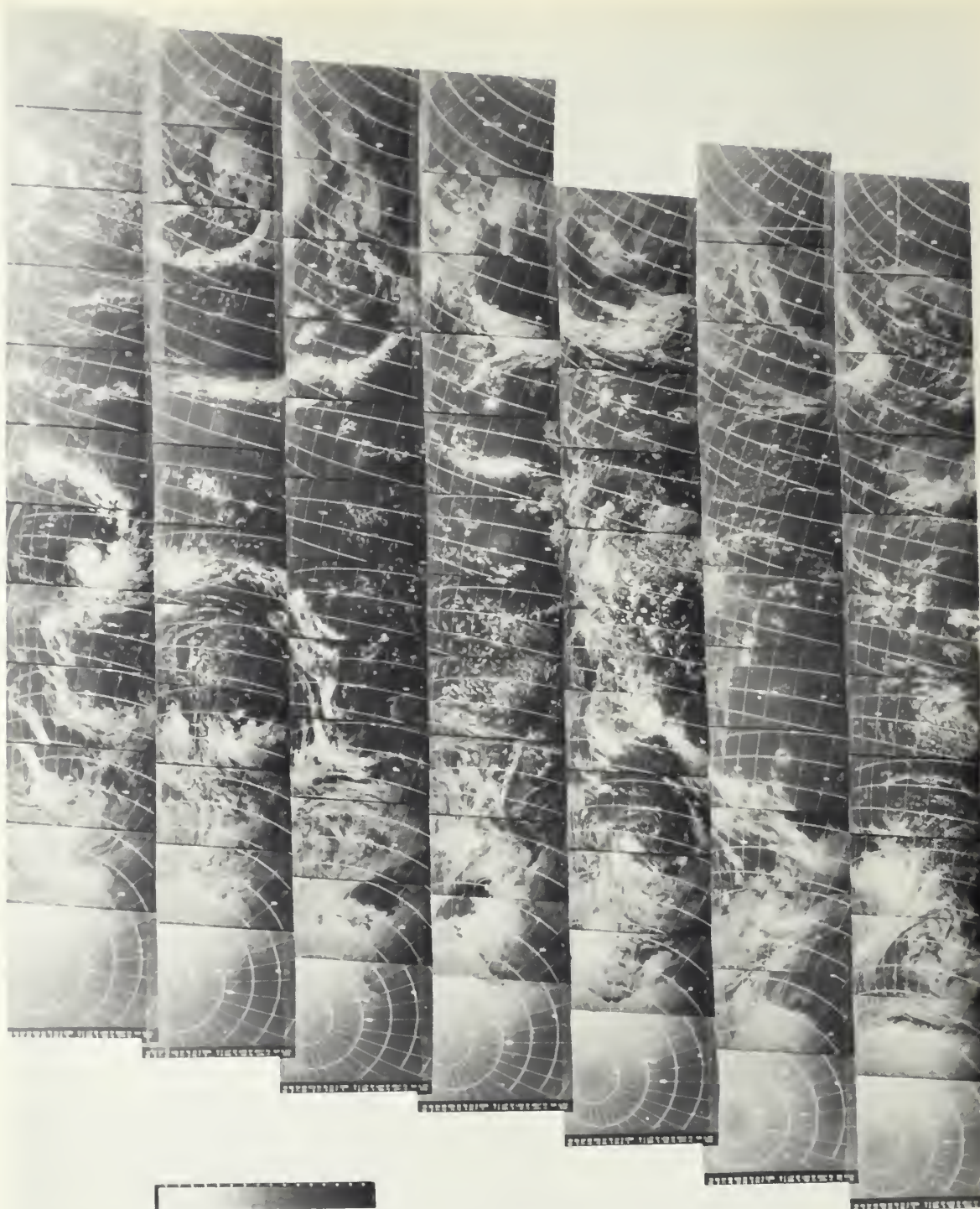


9 FEBRUARY 1968

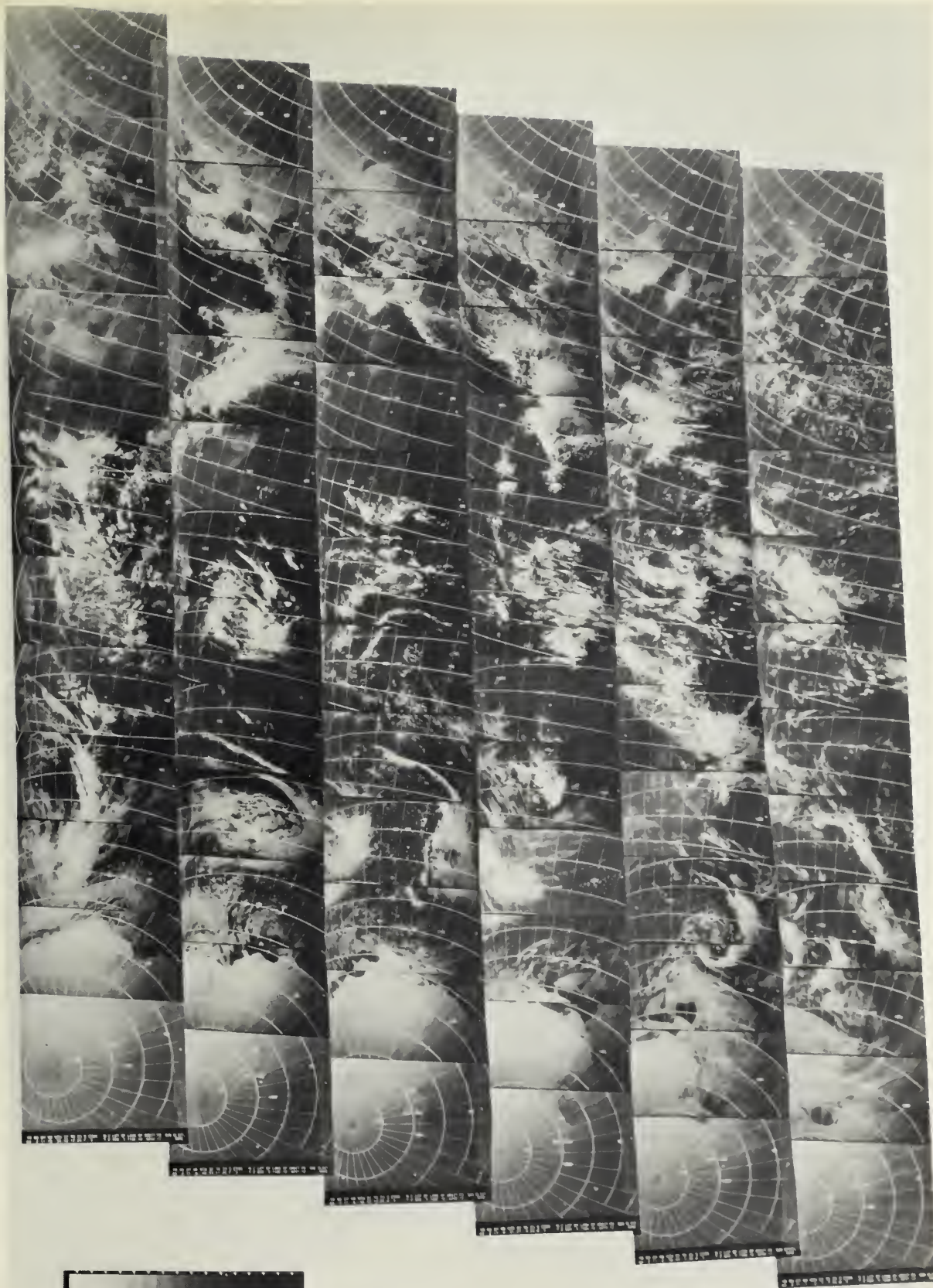




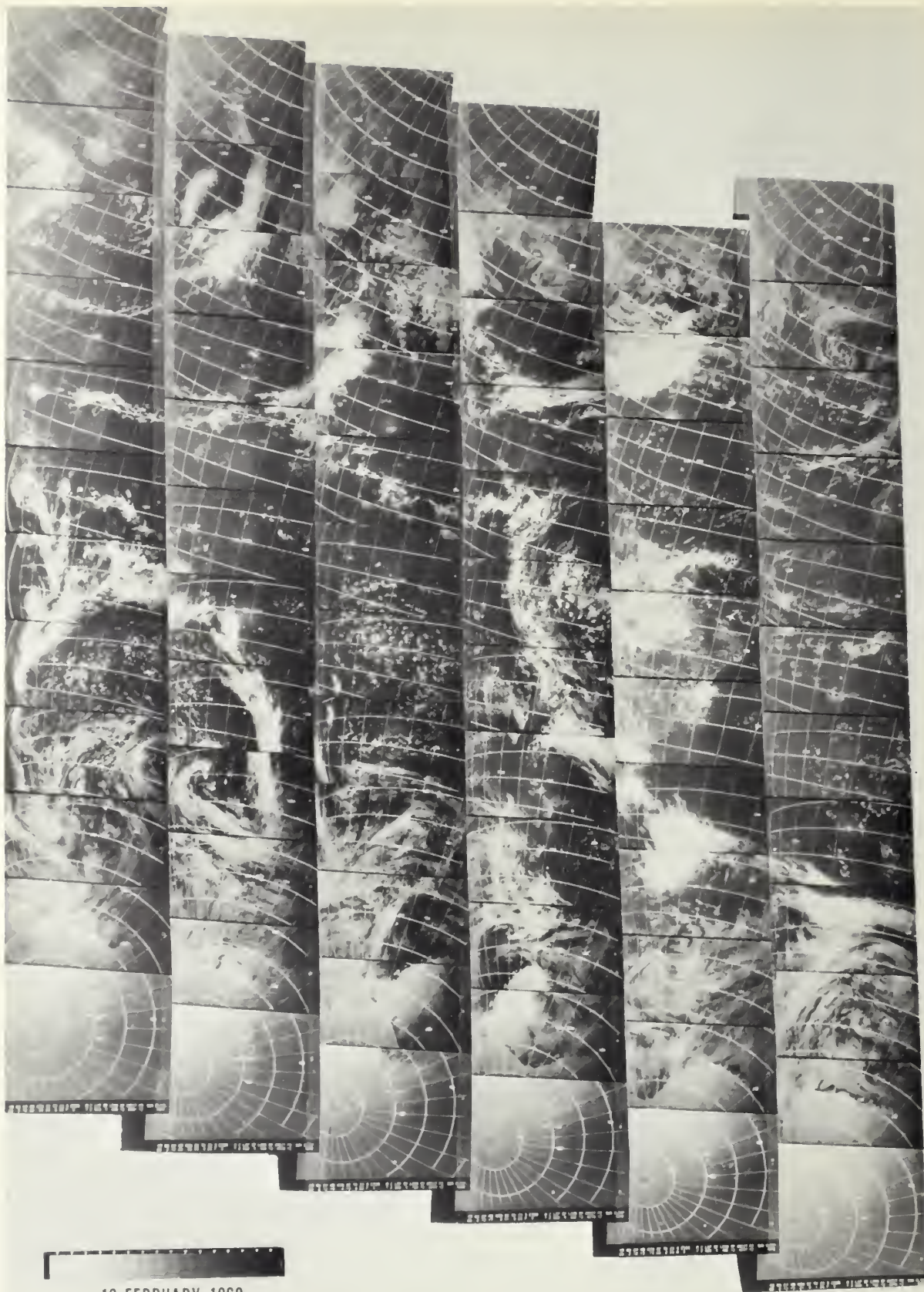
10 FEBRUARY 1968



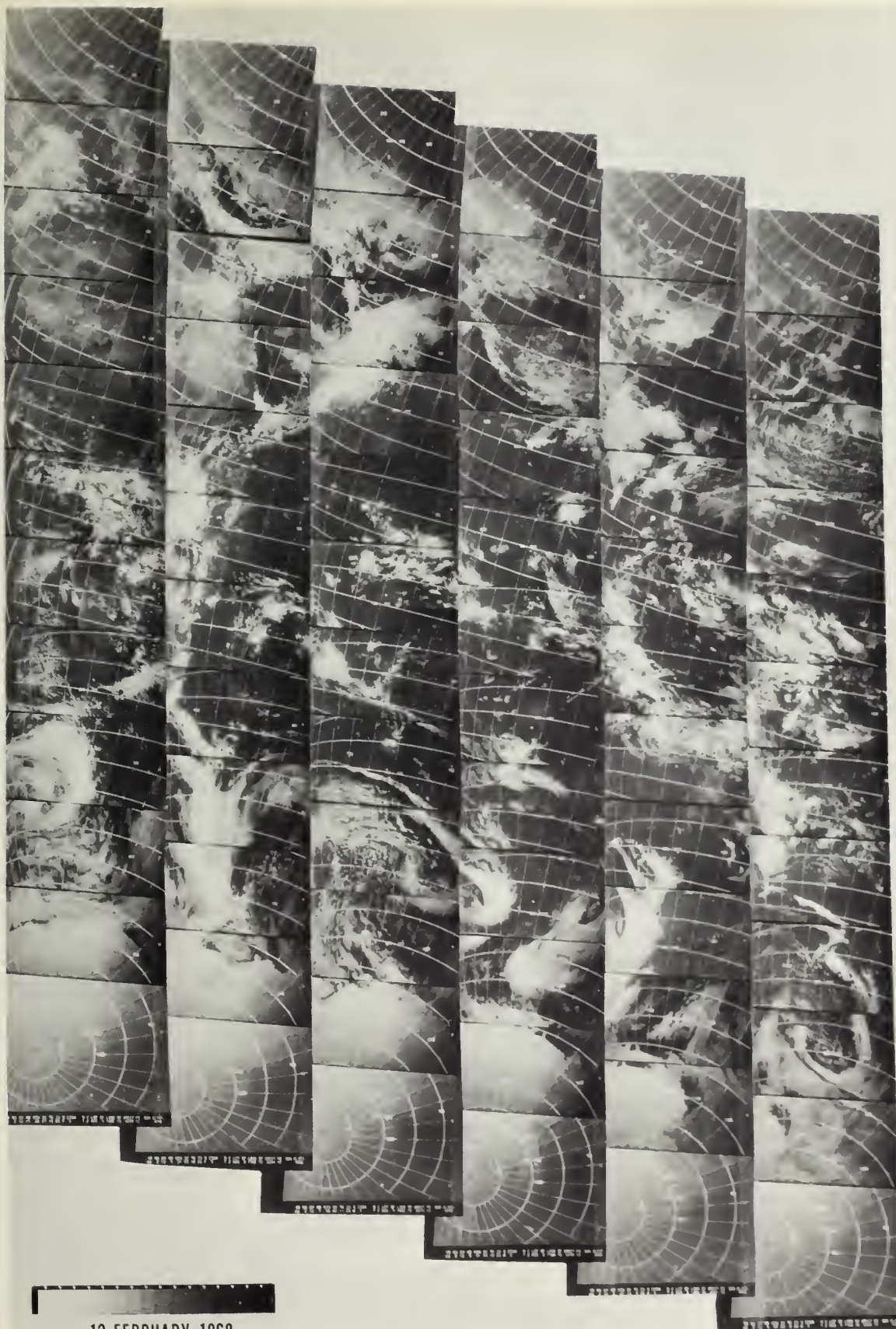
11 FEBRUARY 1968



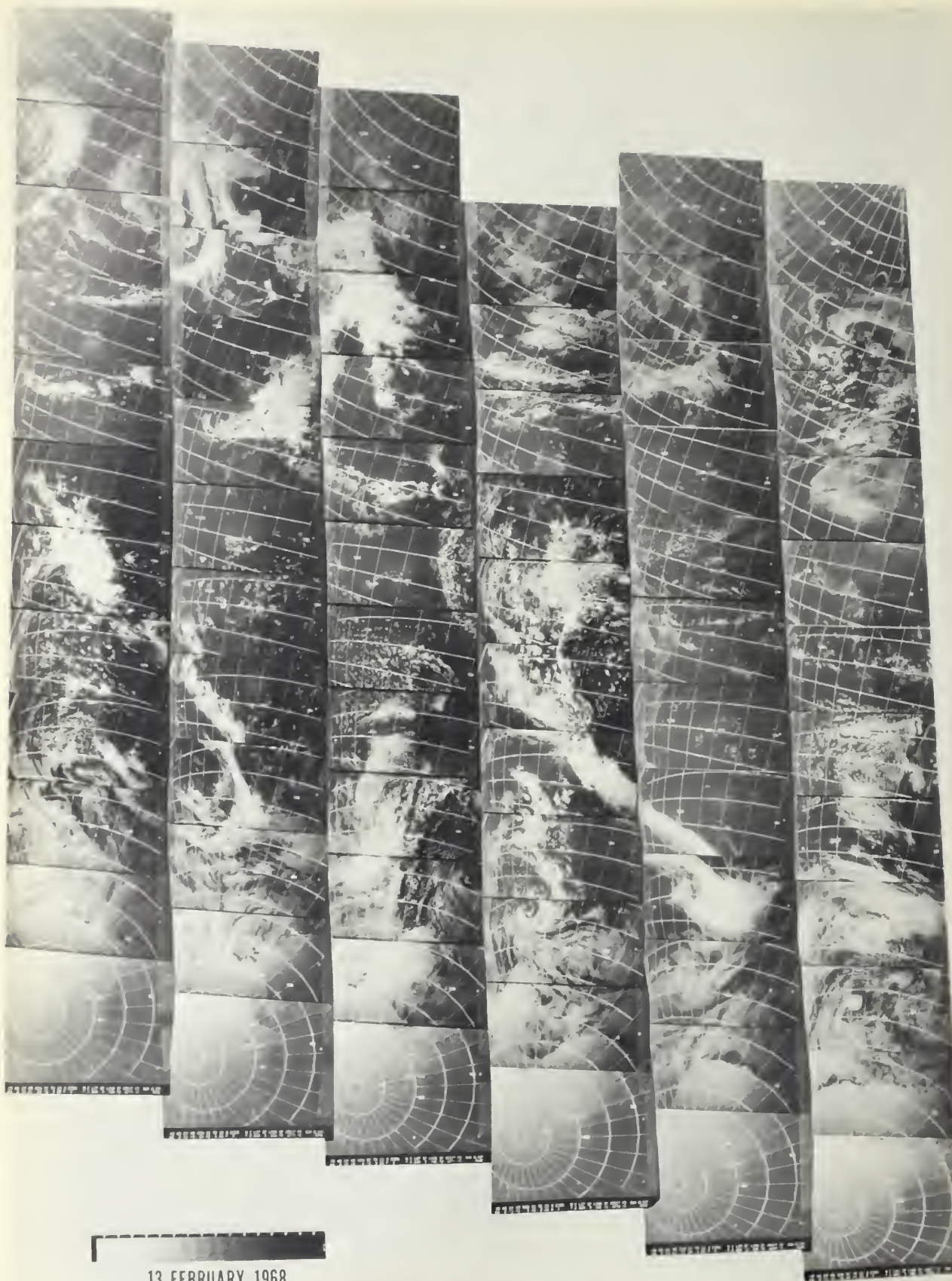
11 FEBRUARY 1968



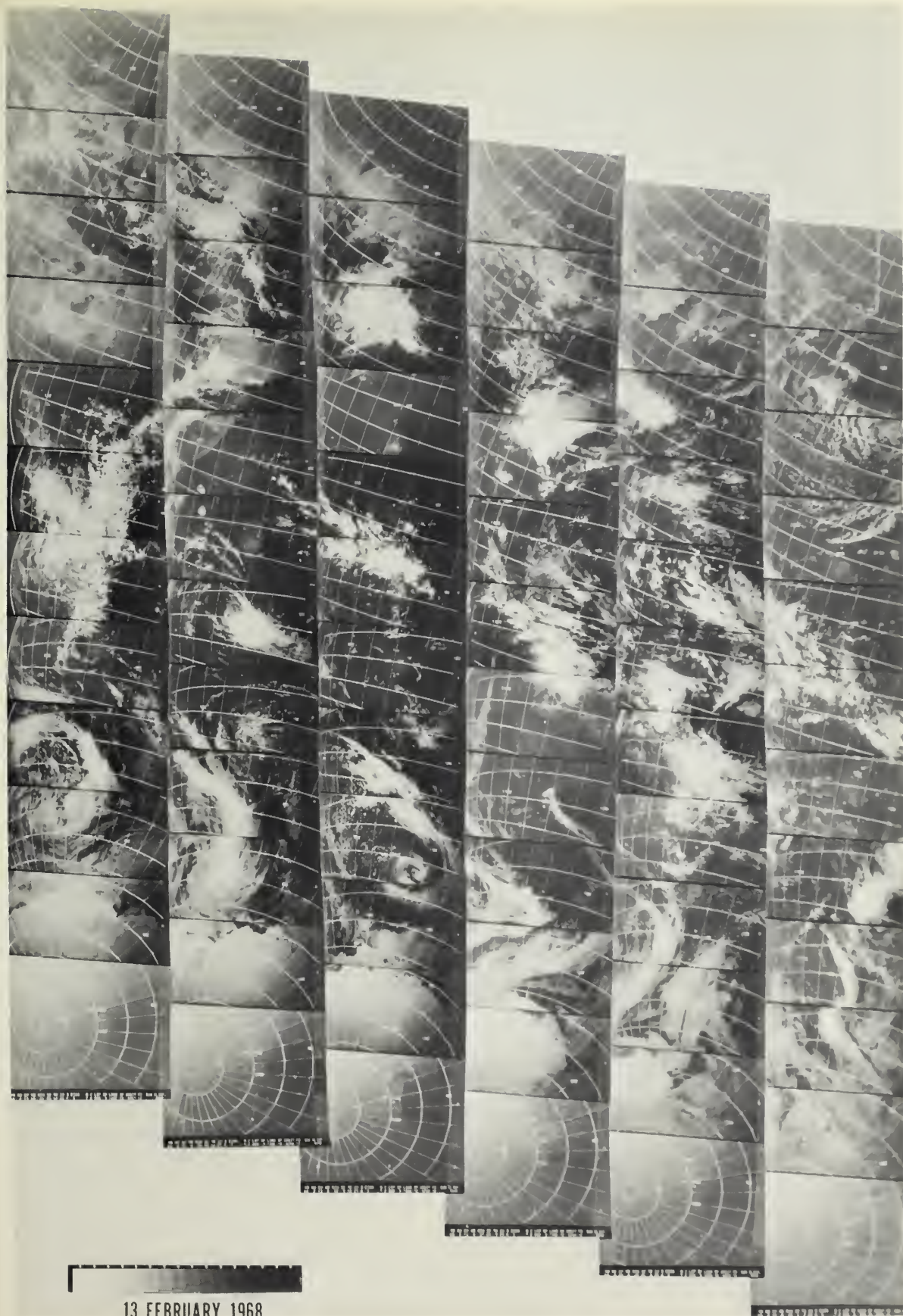
12 FEBRUARY 1968



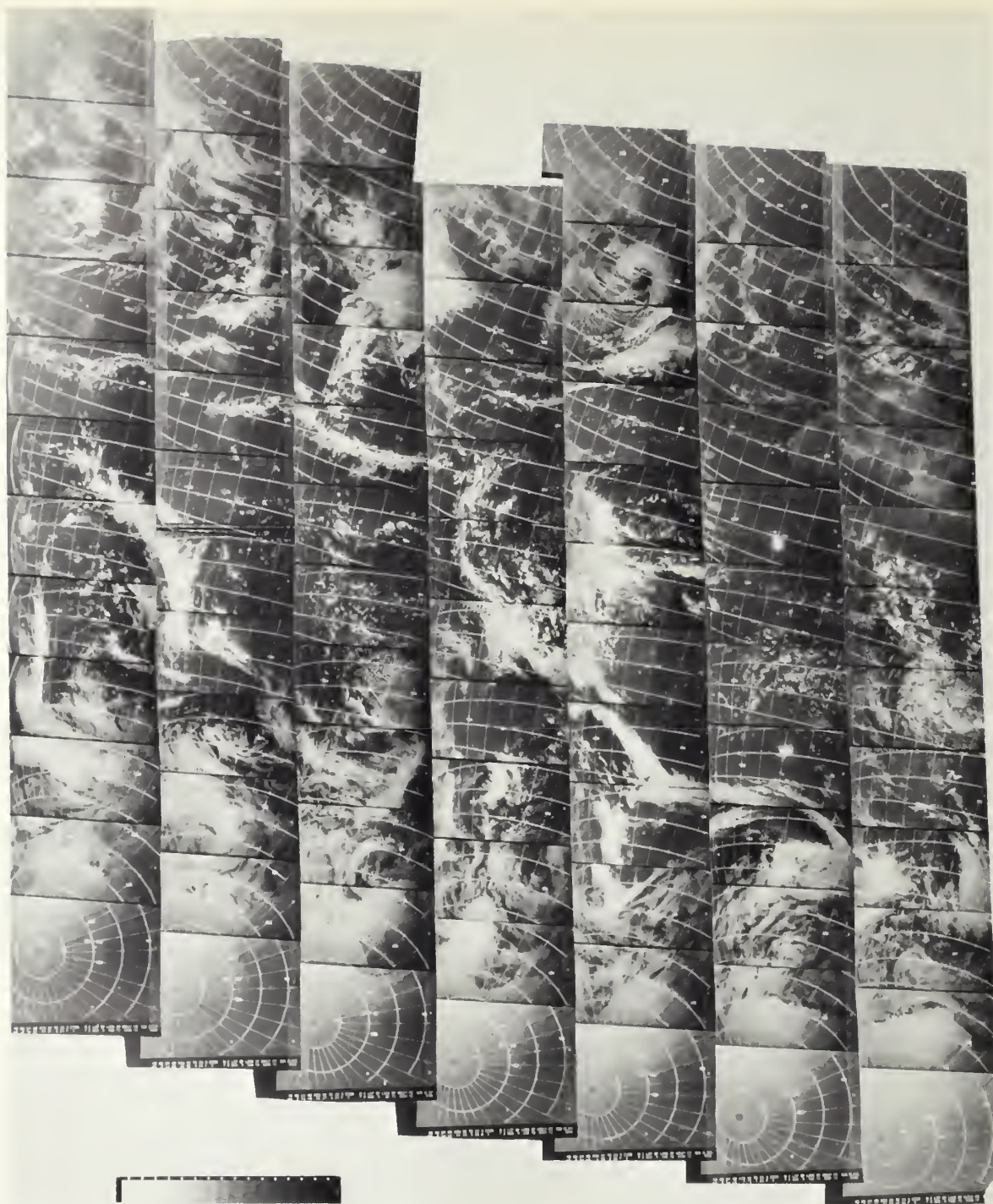
12 FEBRUARY 1968



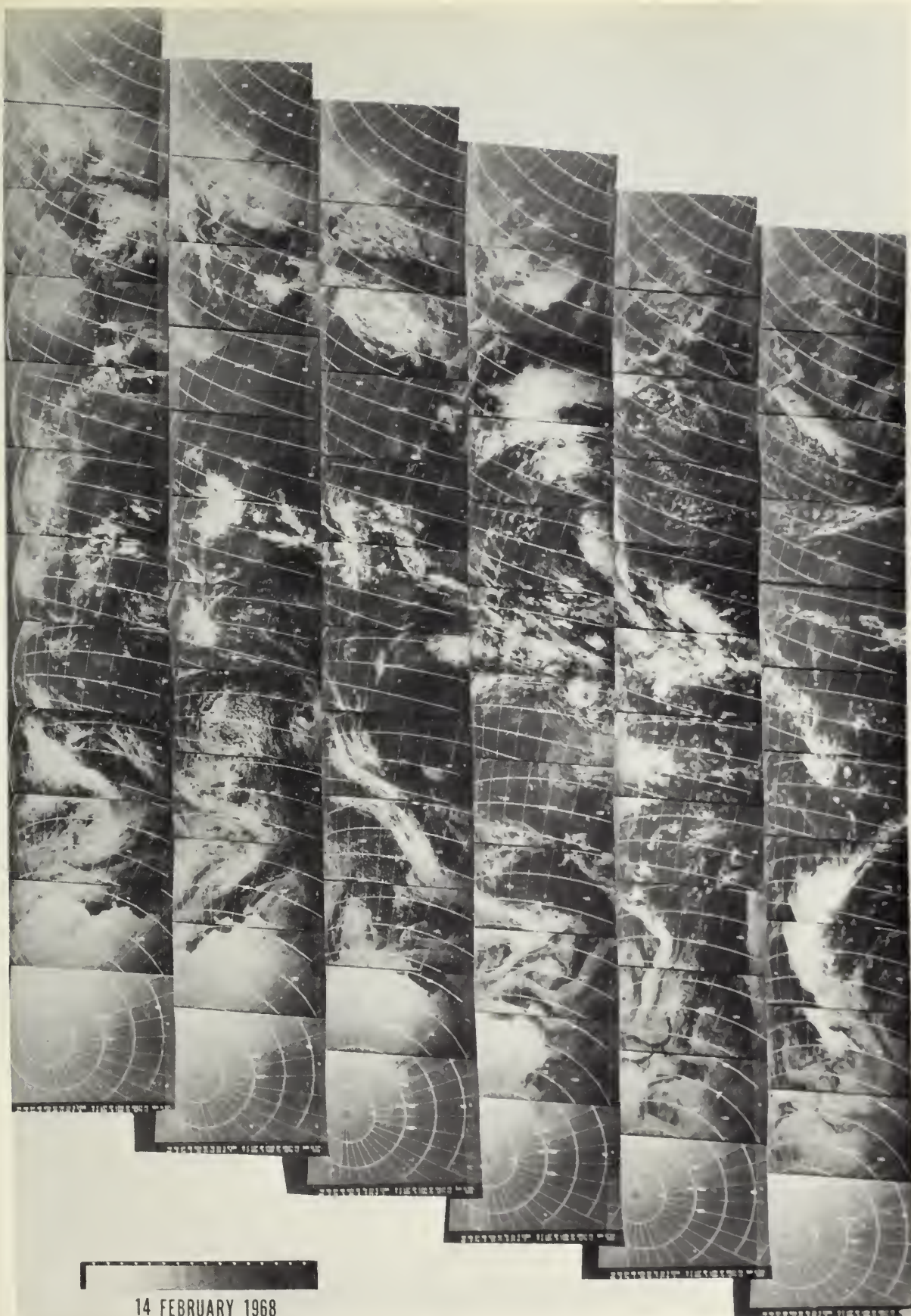
13 FEBRUARY 1968



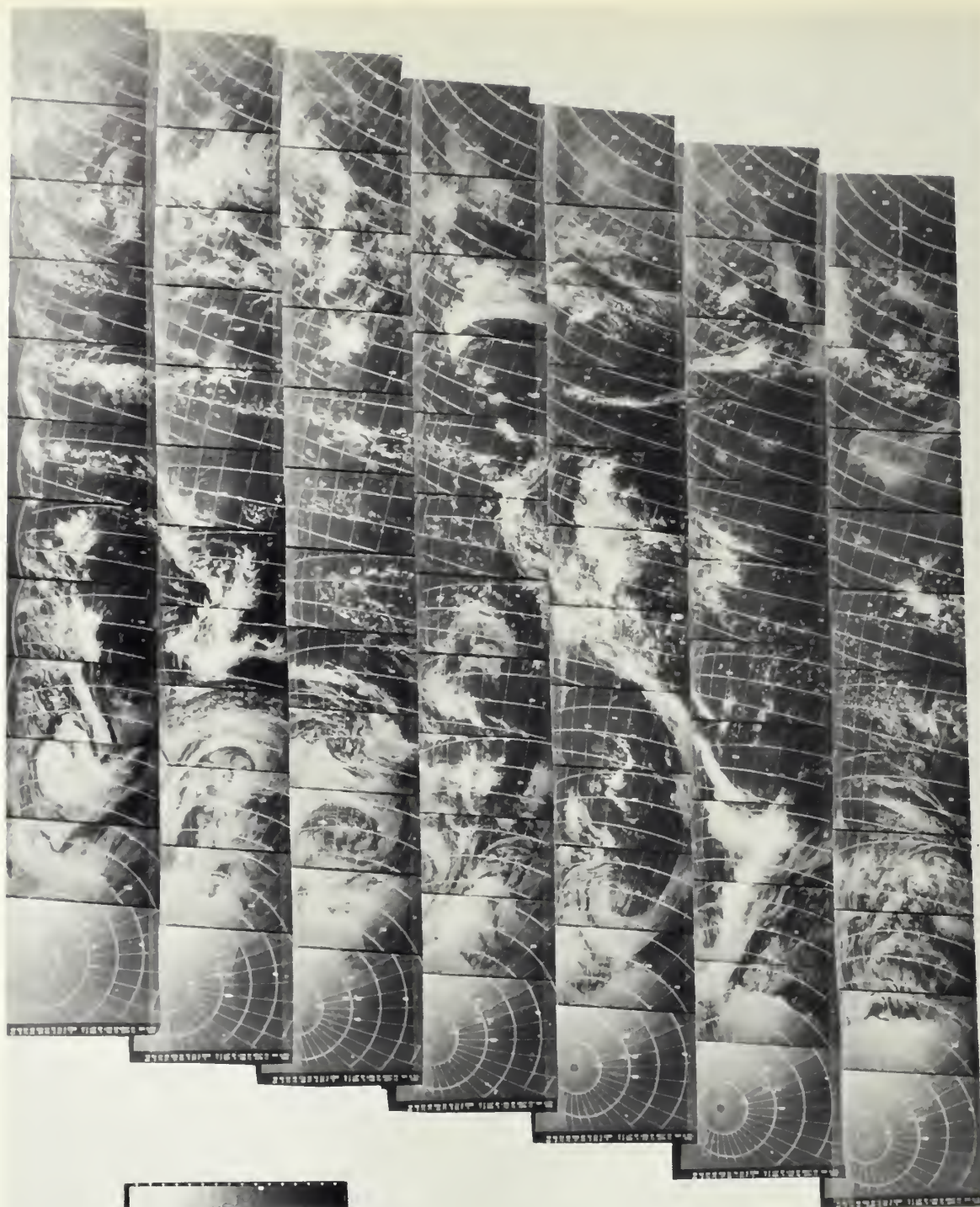
13 FEBRUARY 1968



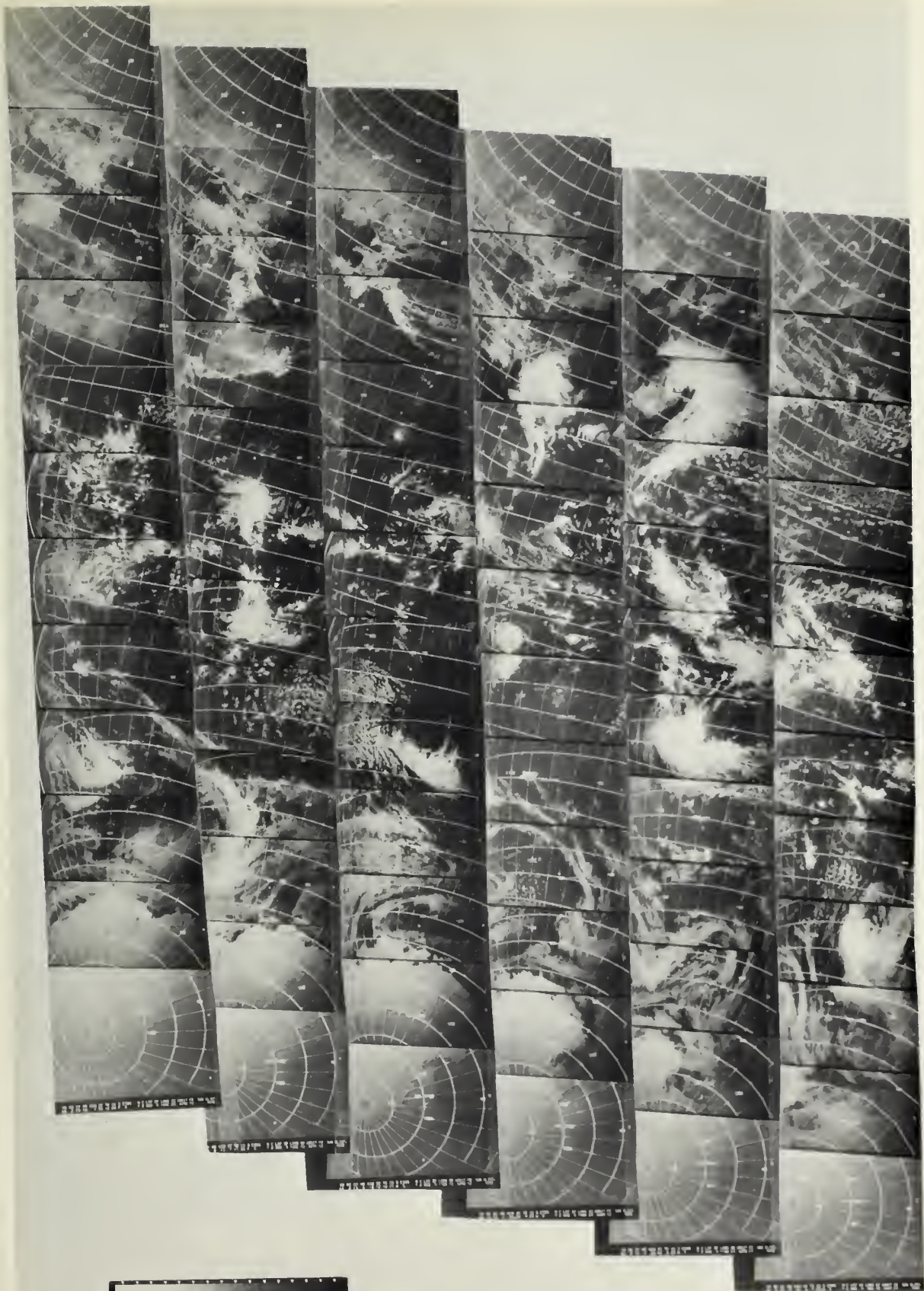
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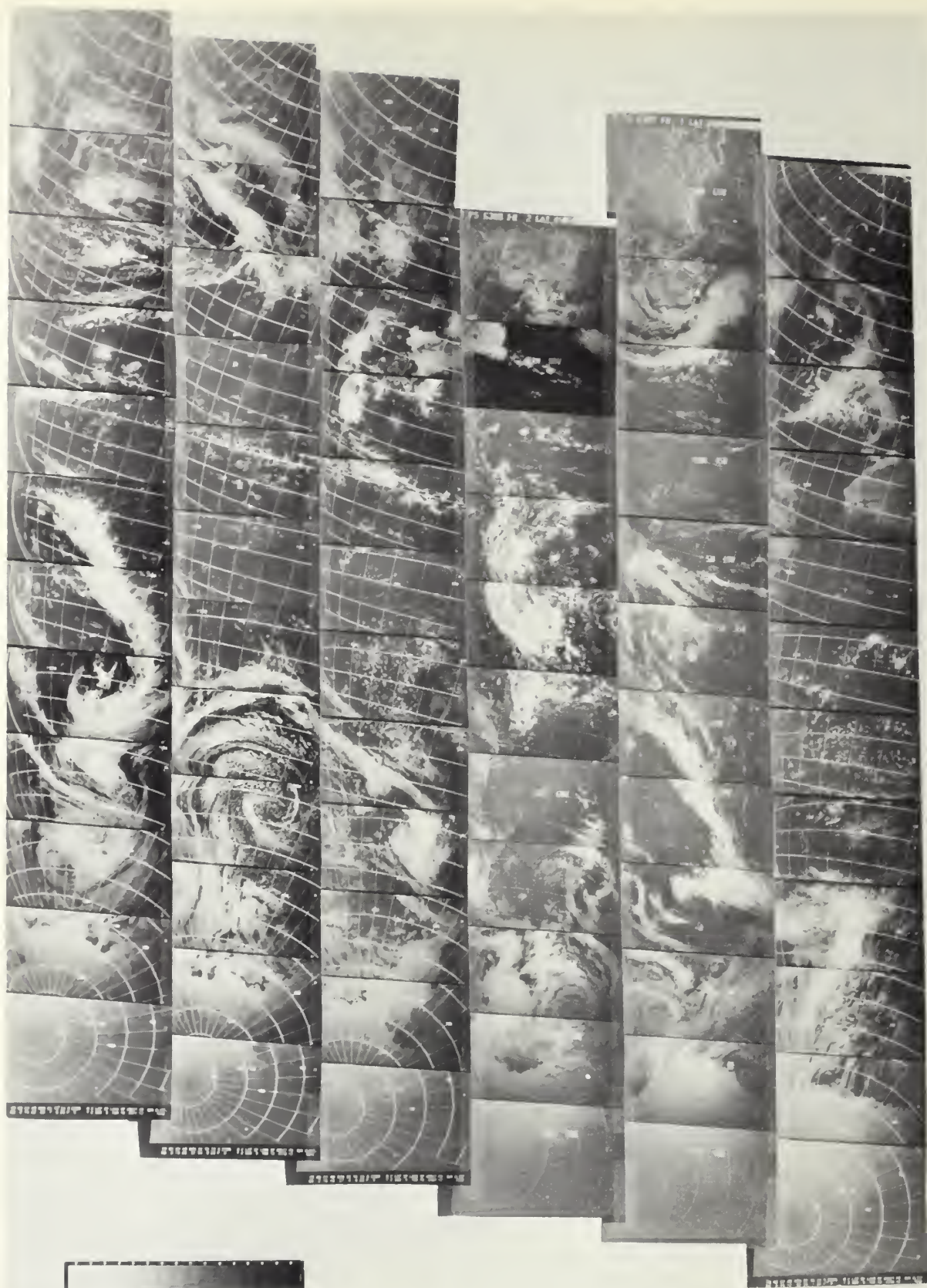
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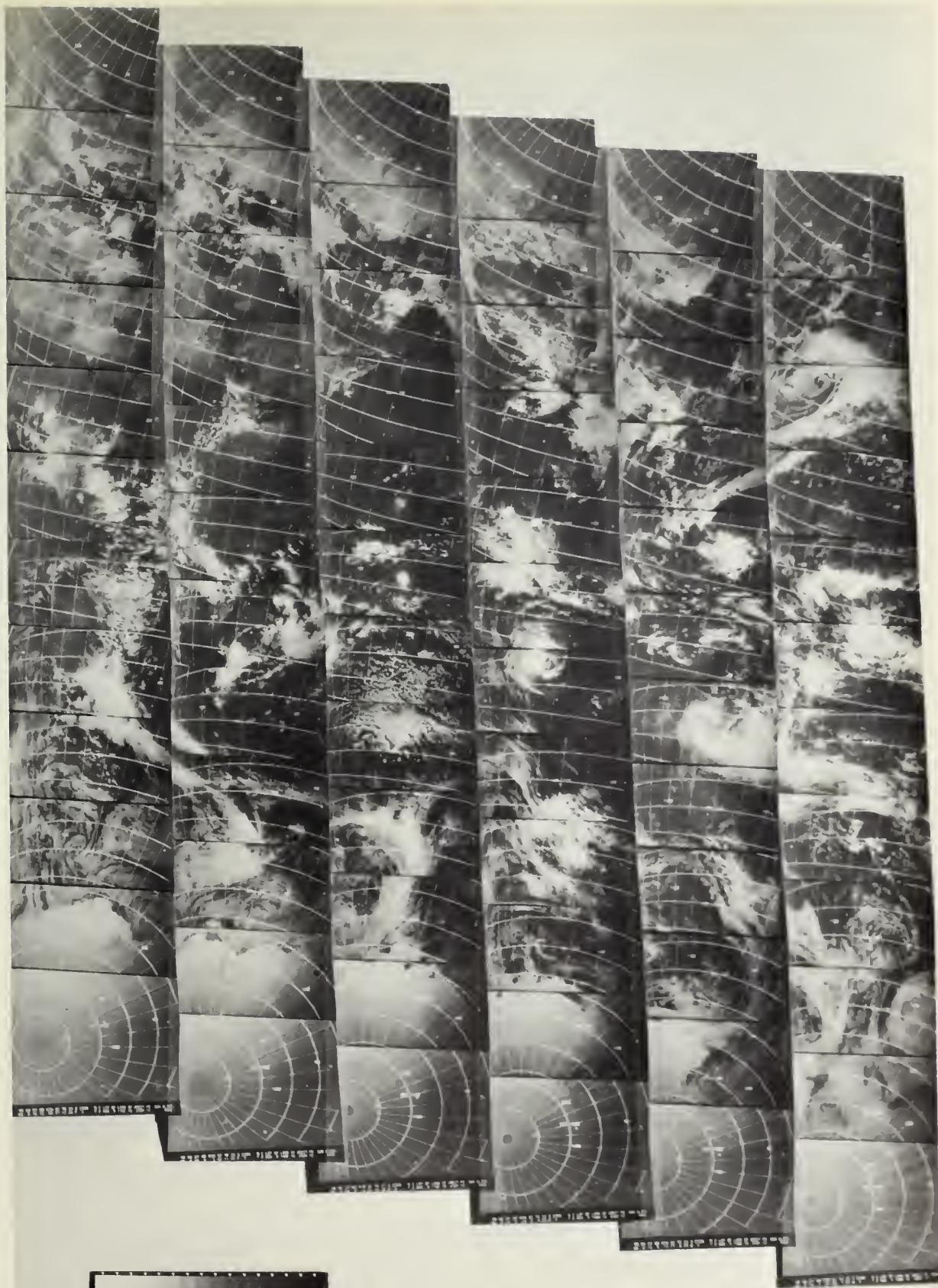
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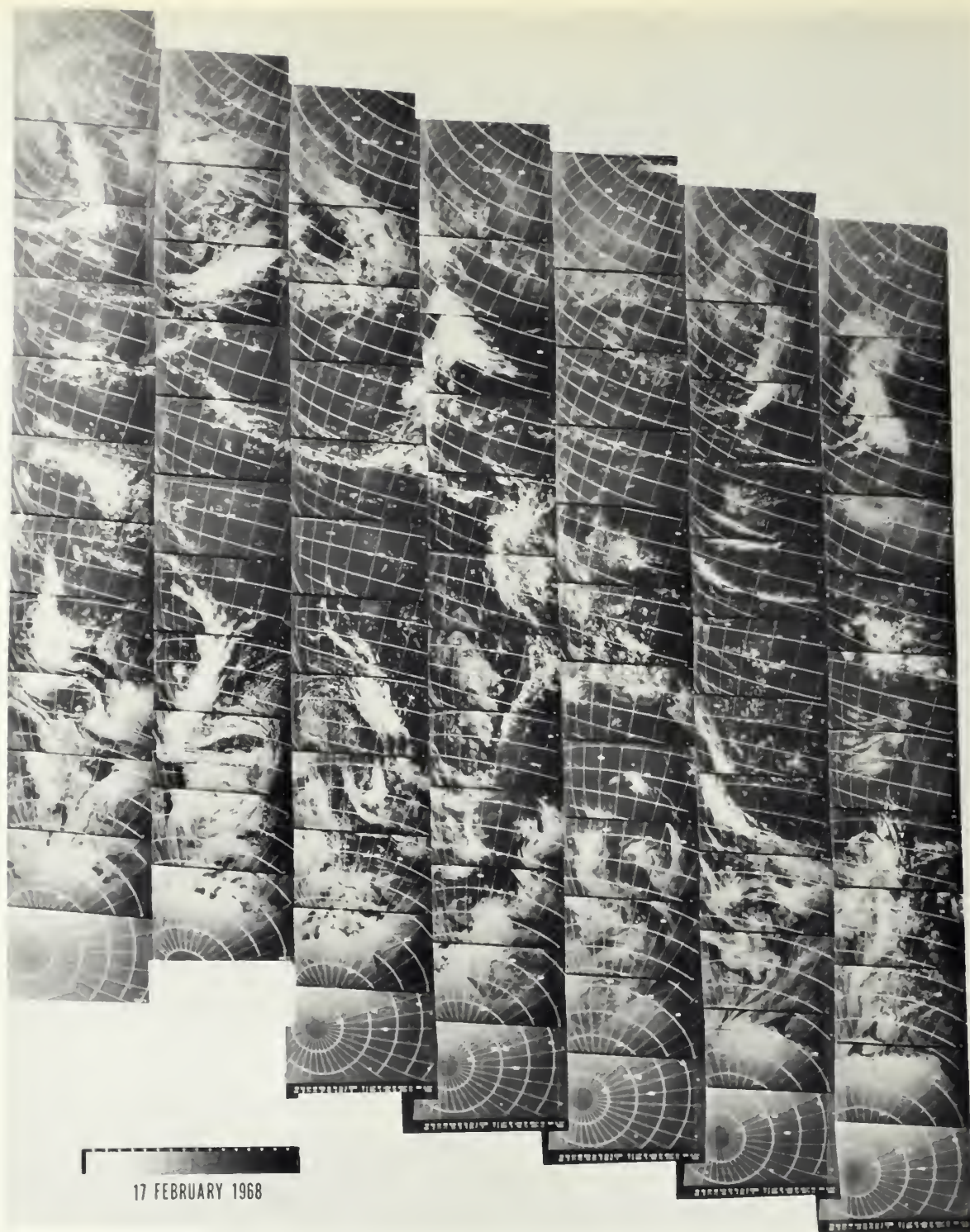
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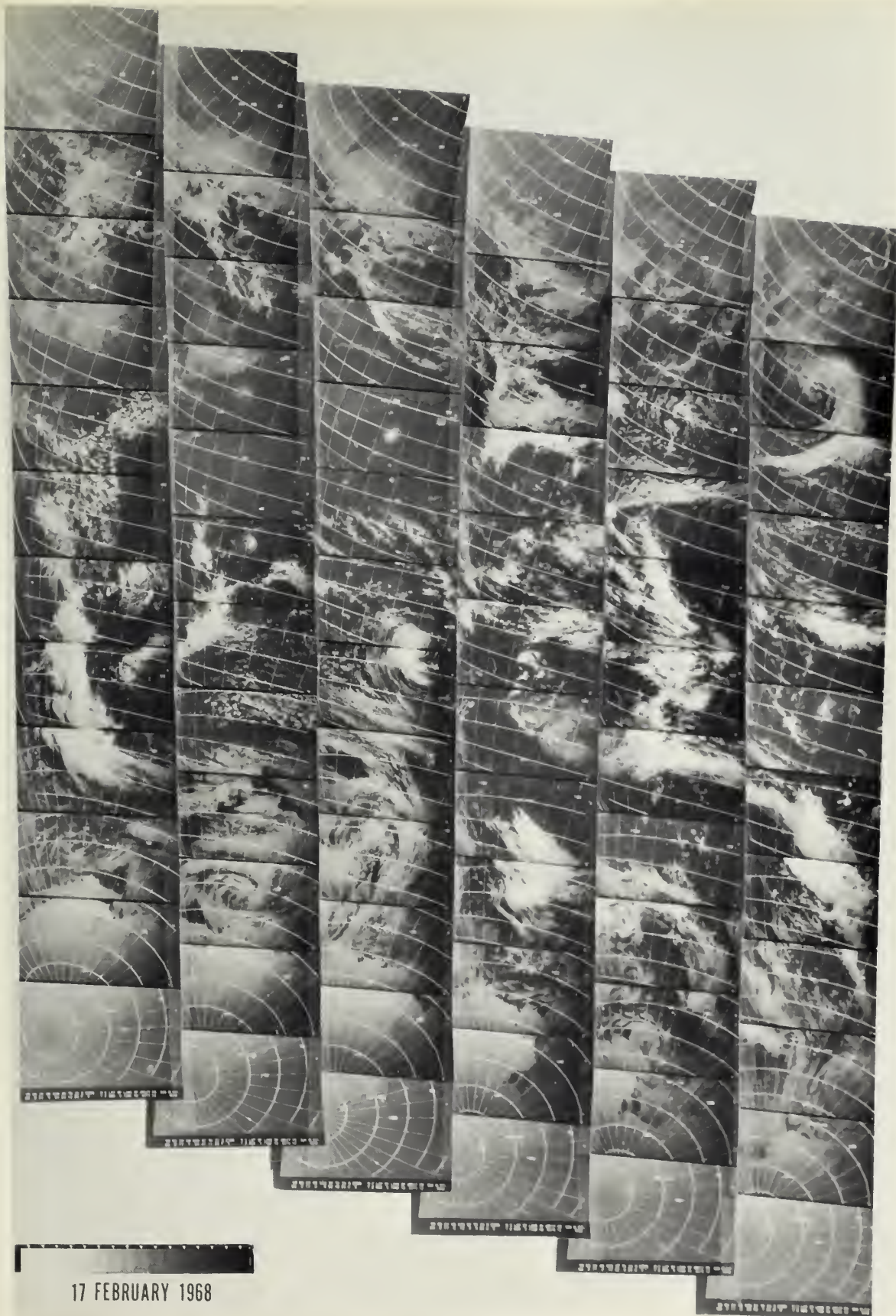


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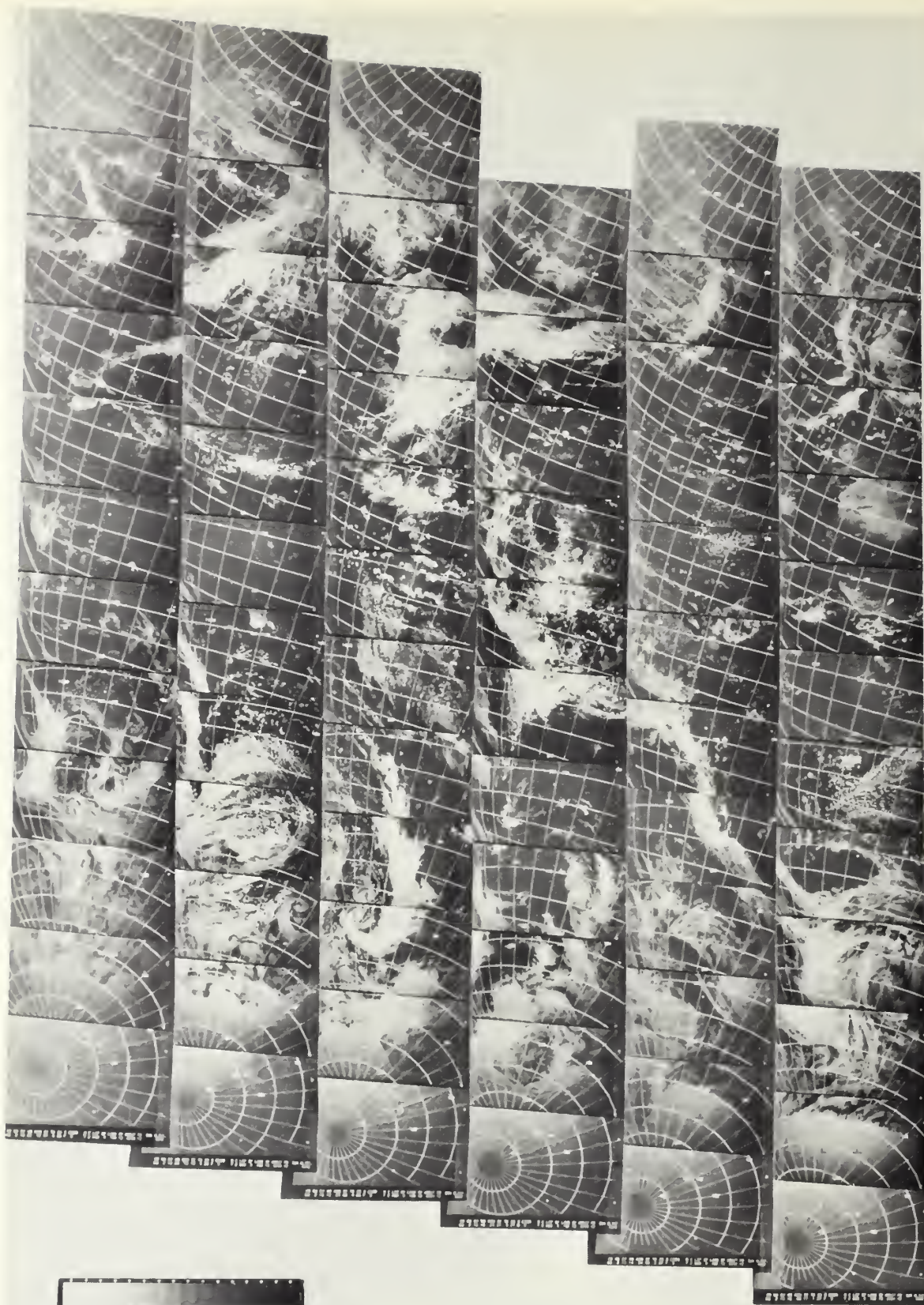


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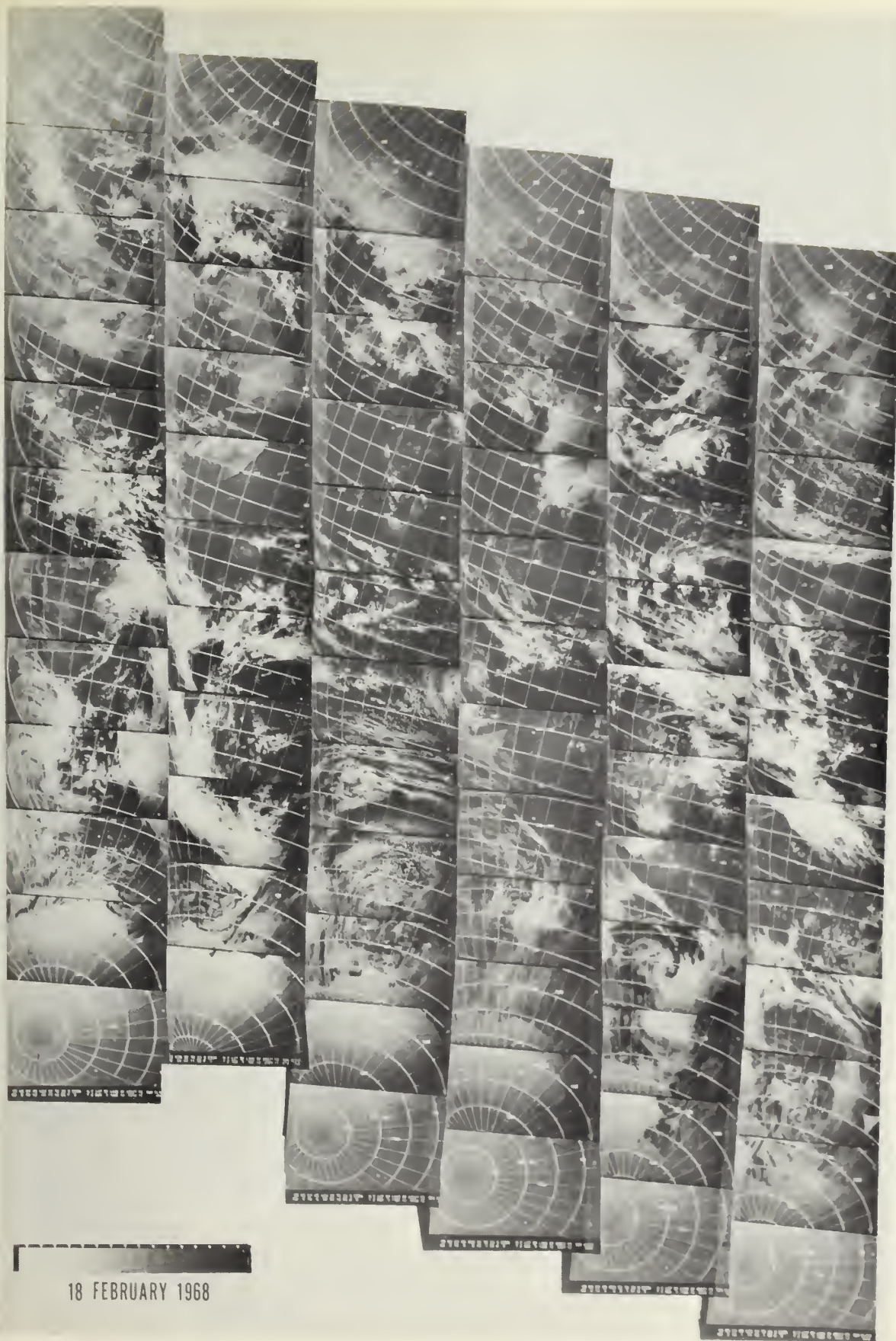


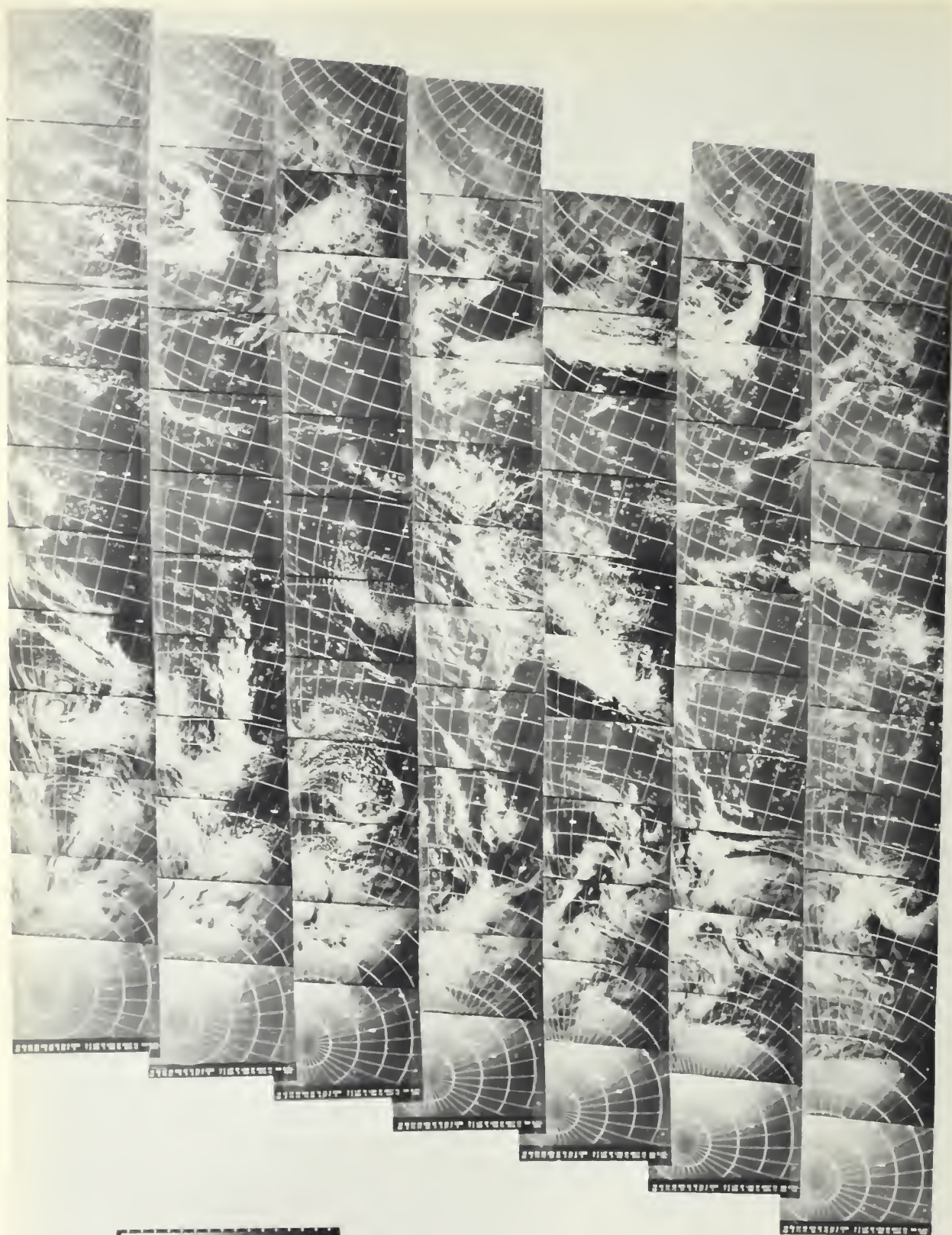


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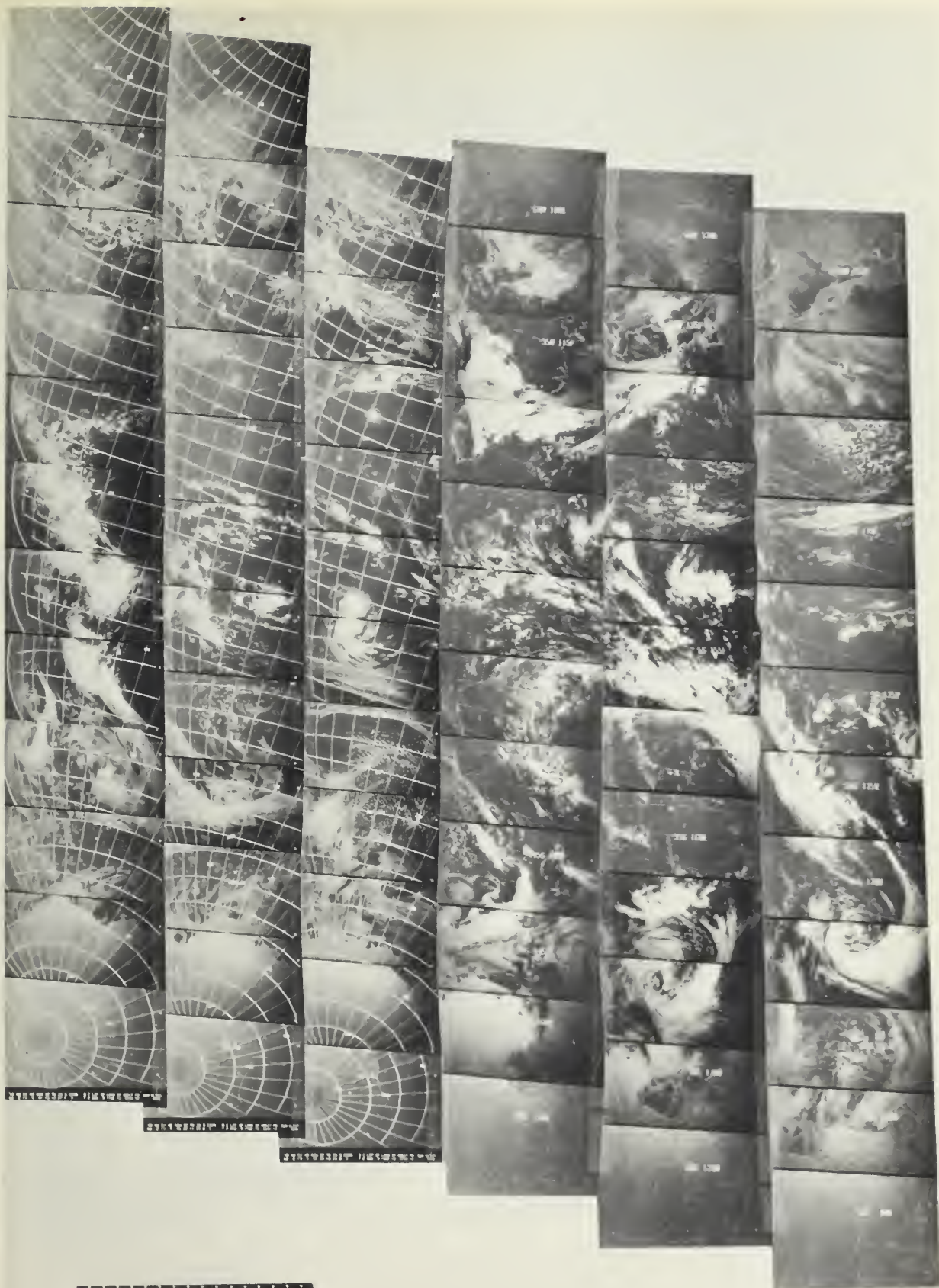


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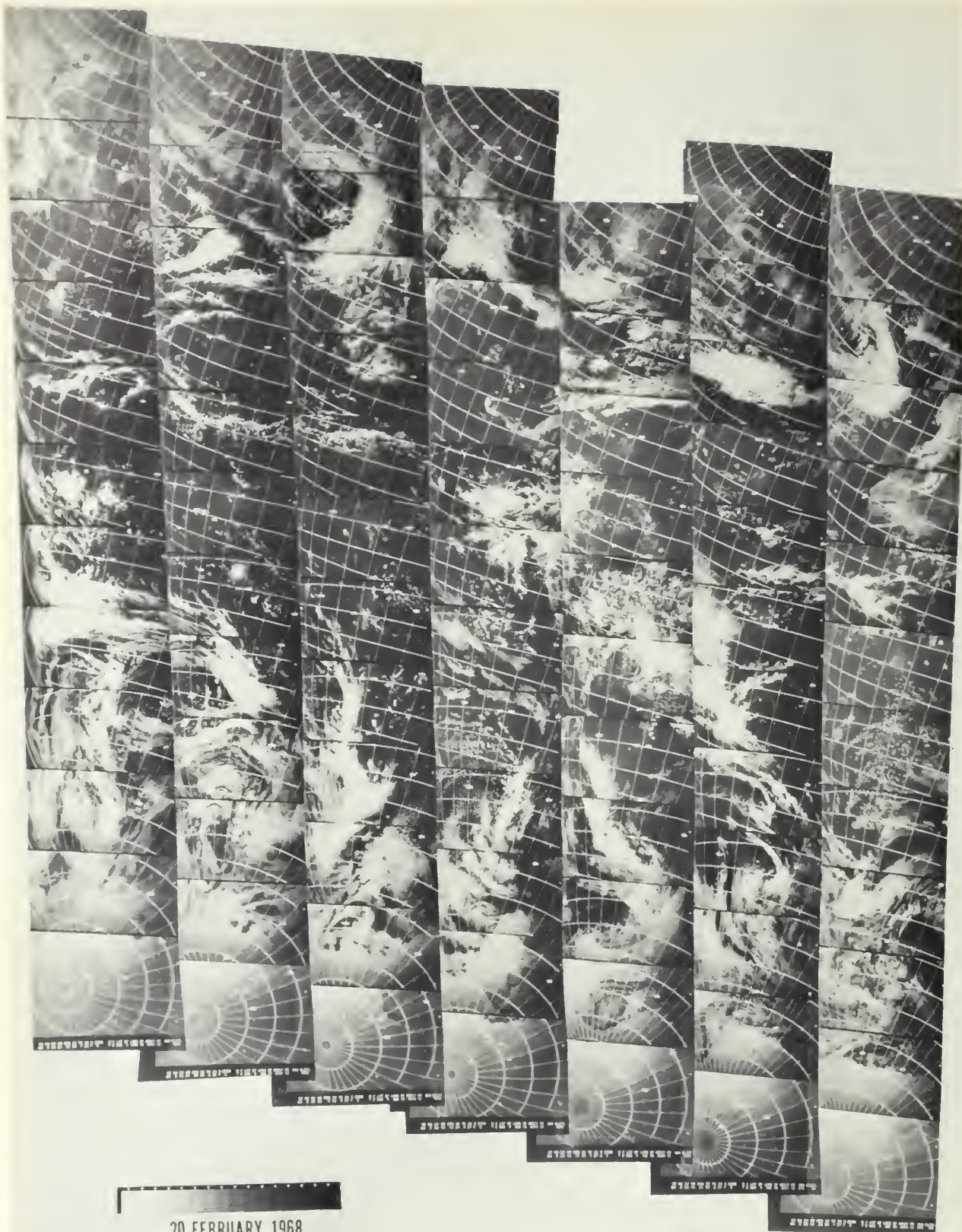


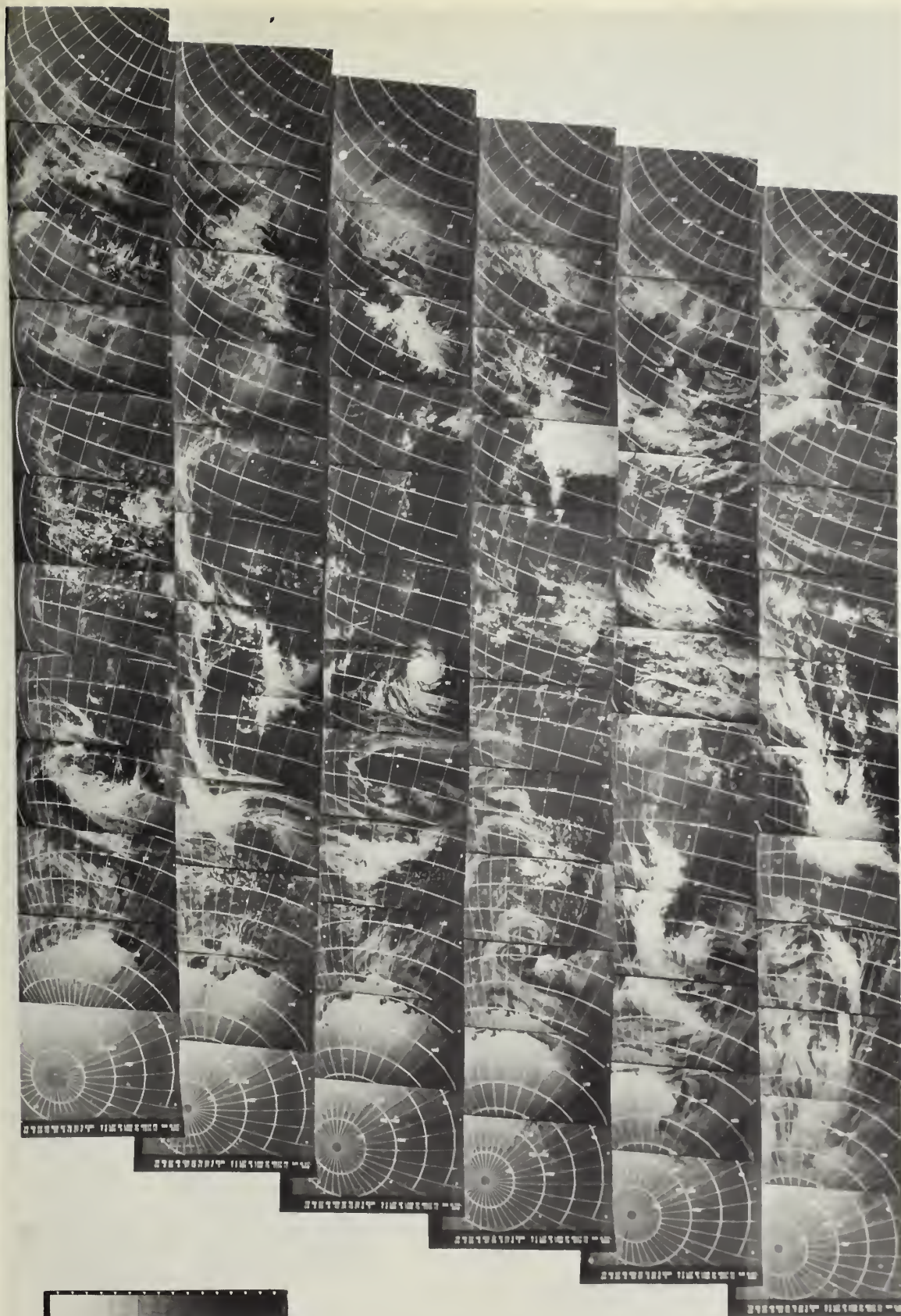


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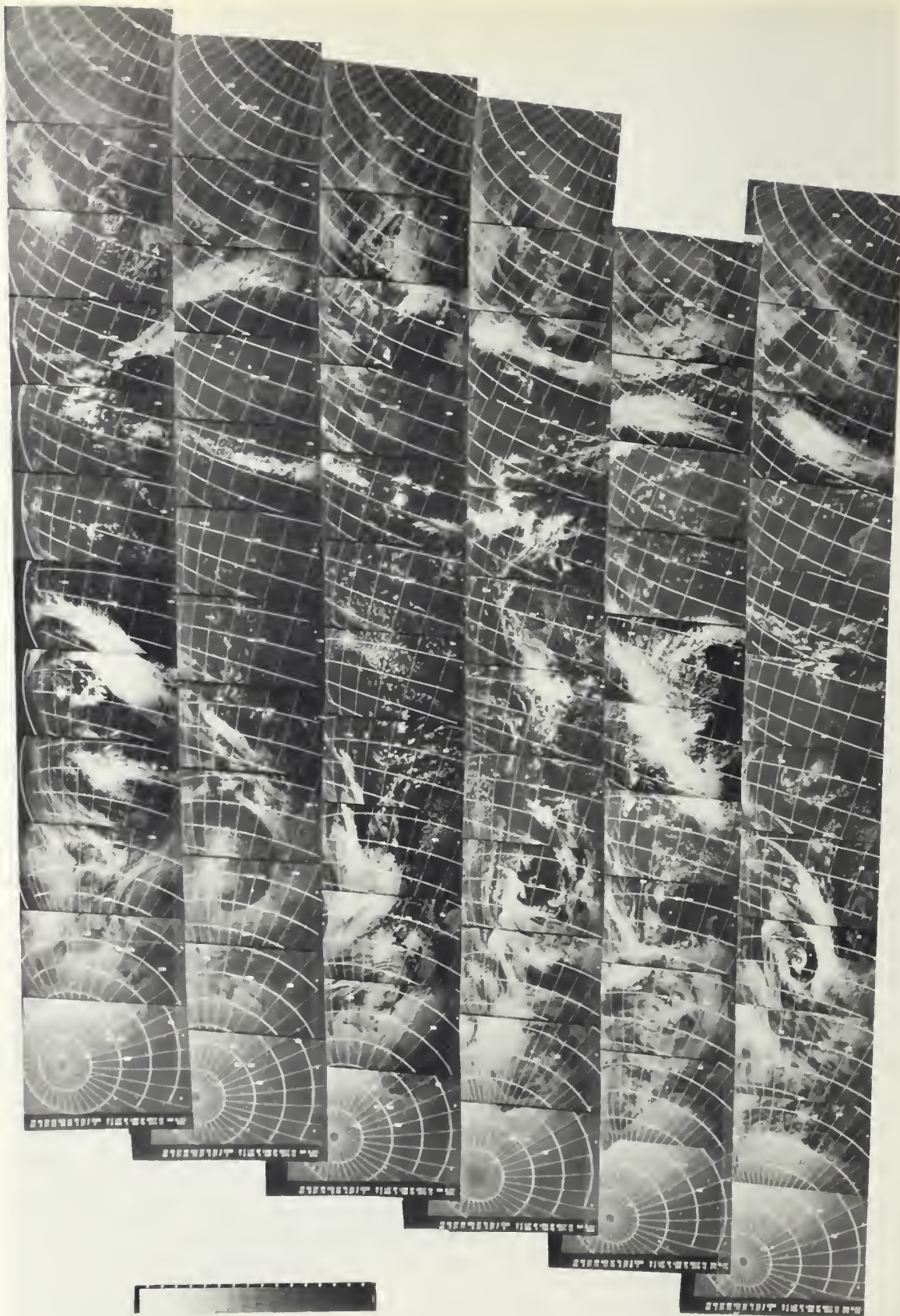


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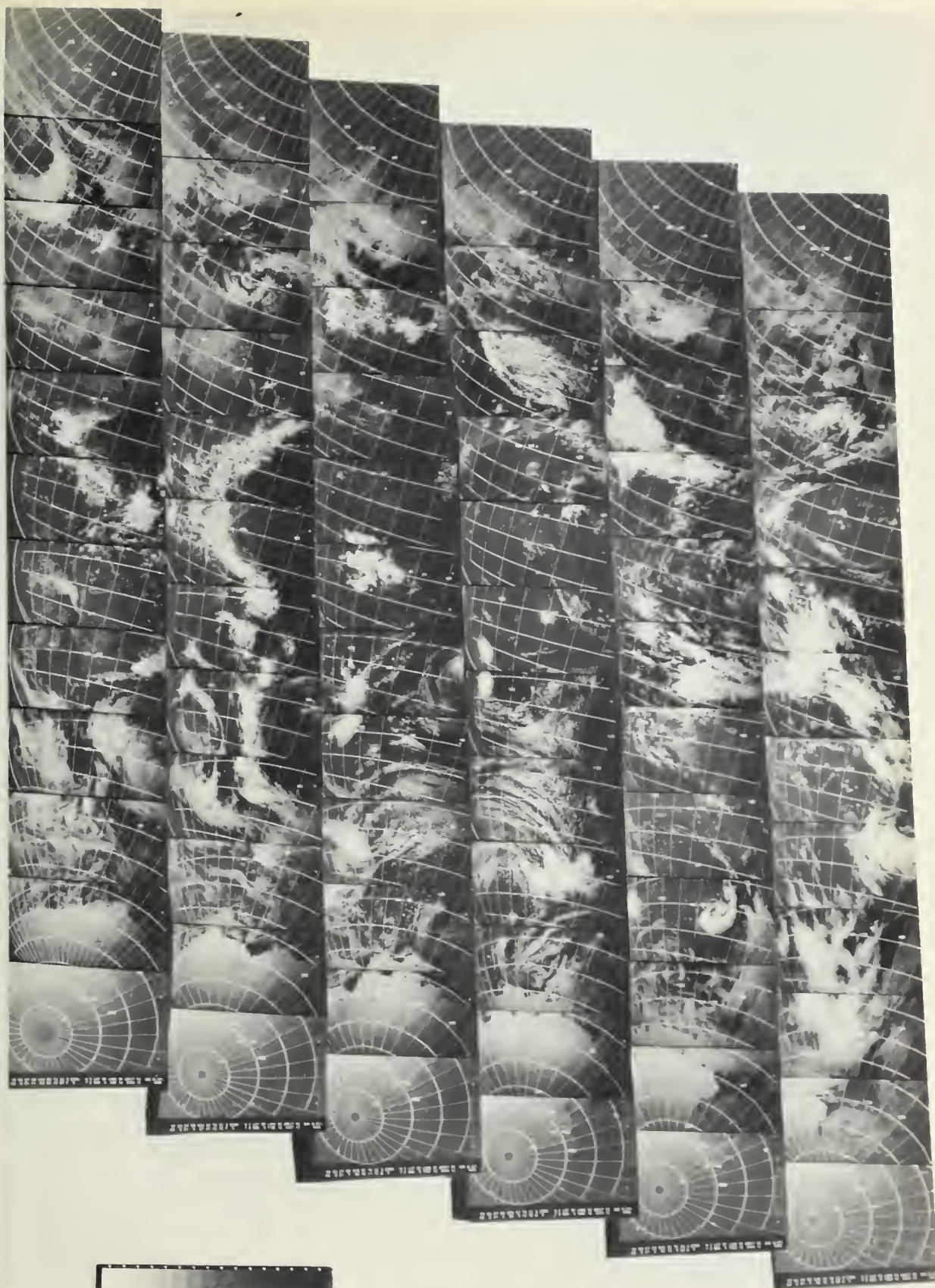




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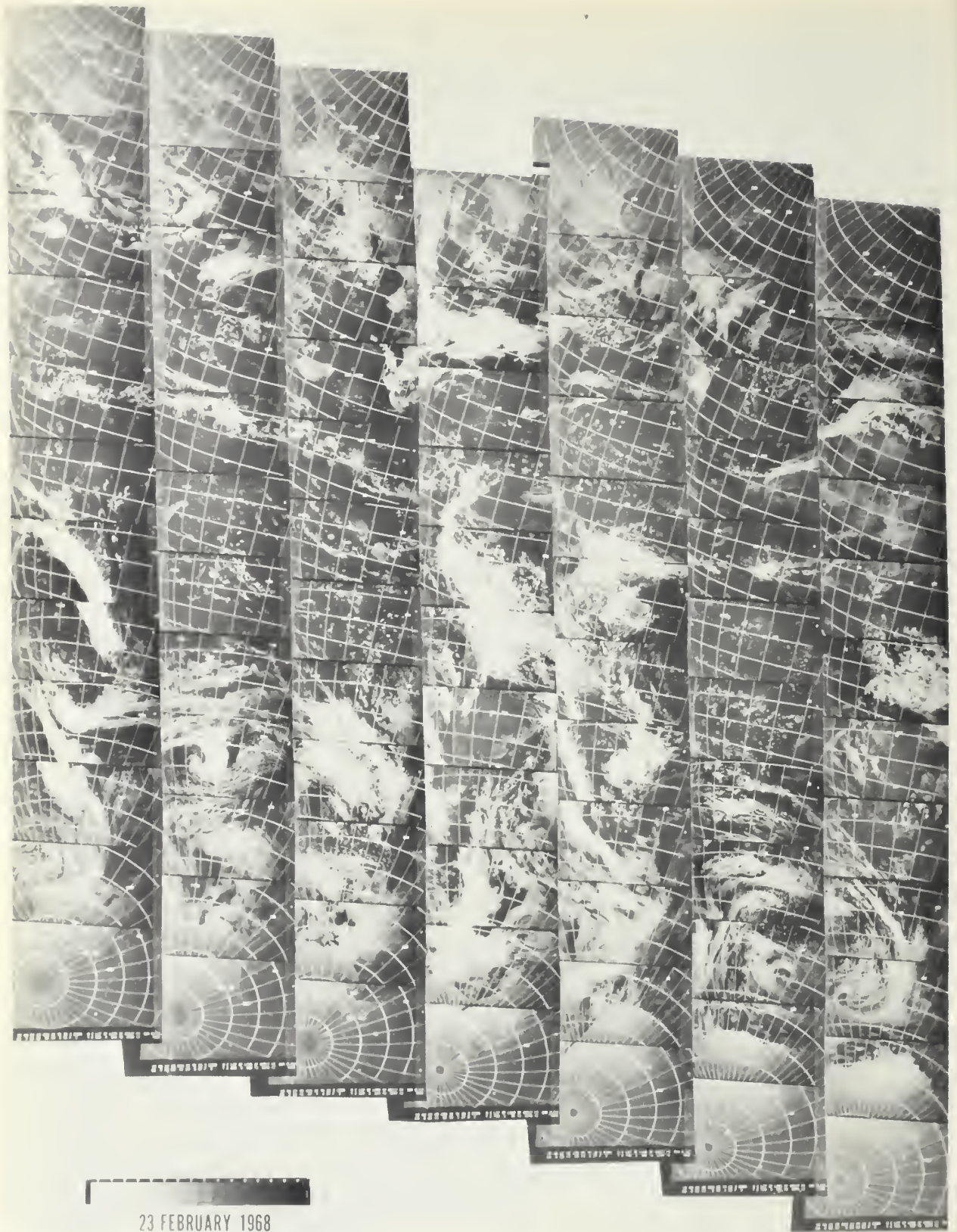
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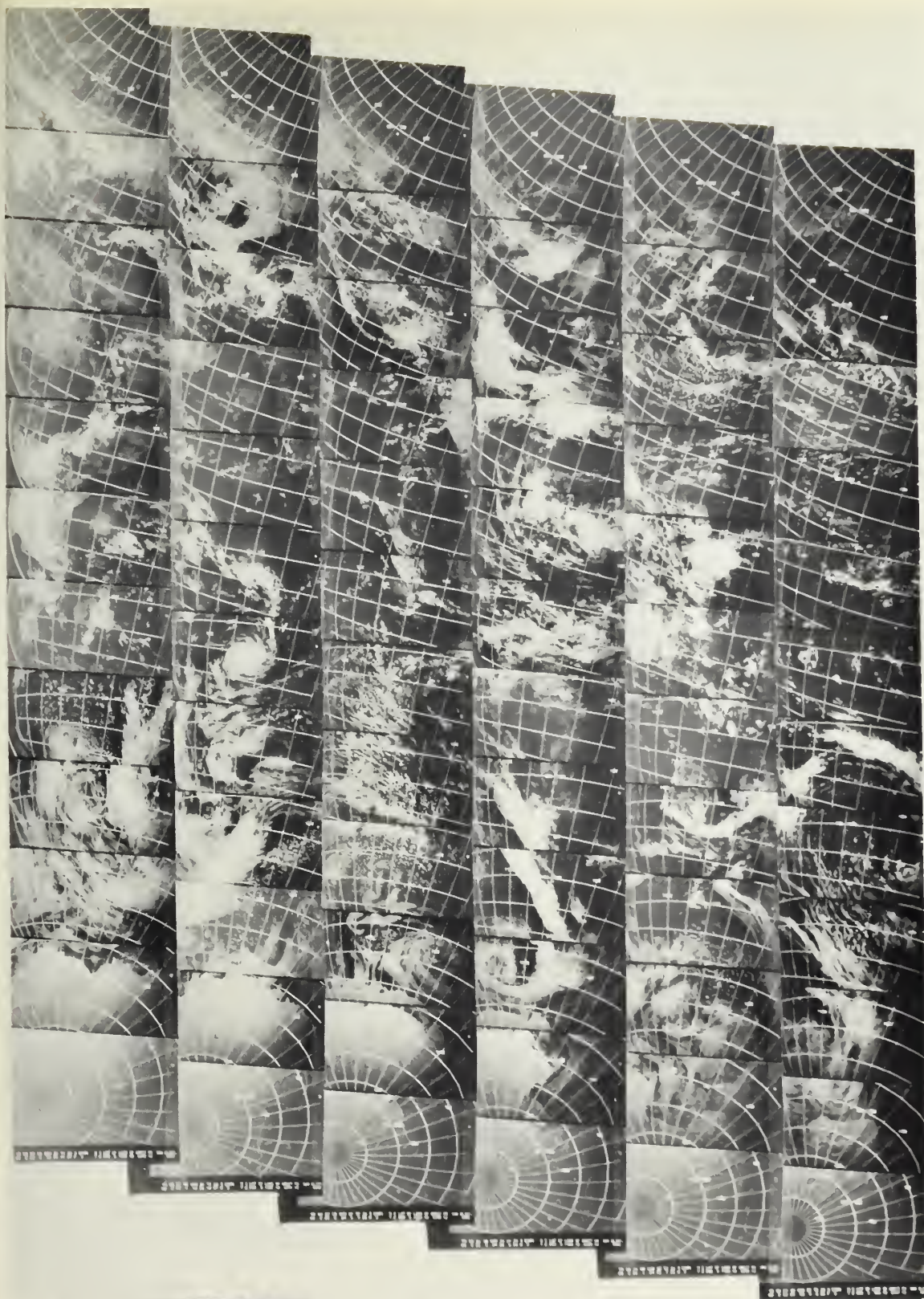


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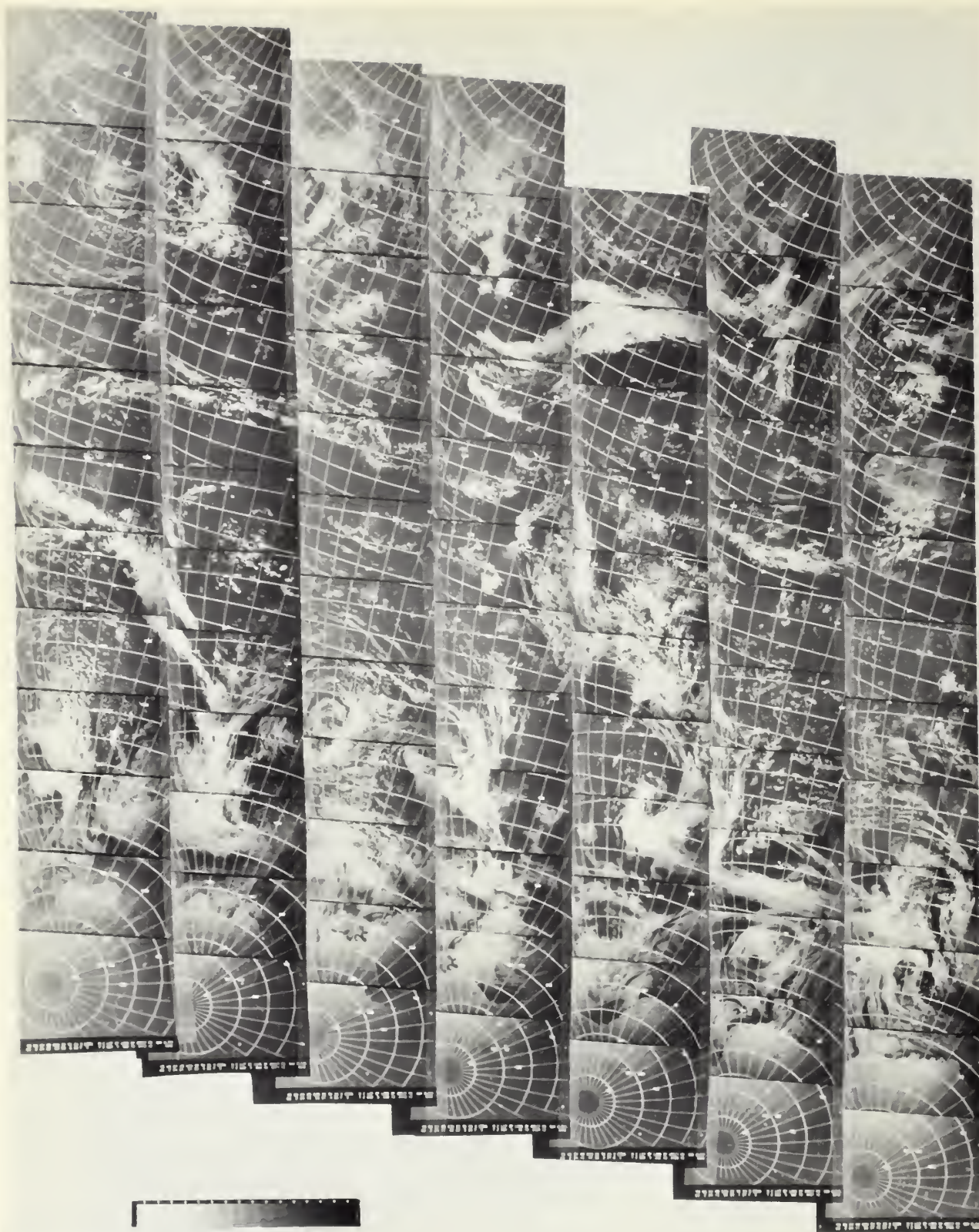


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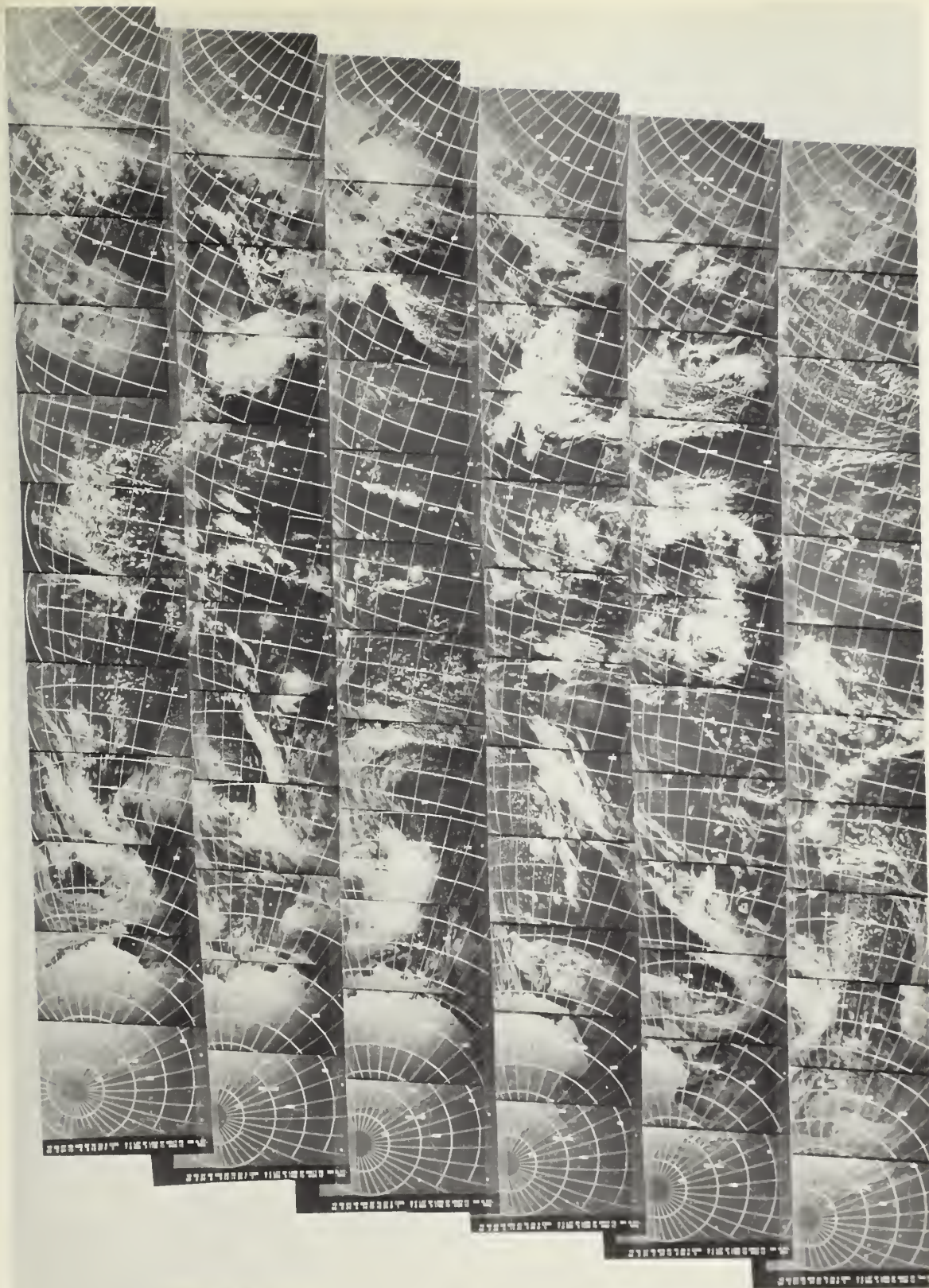




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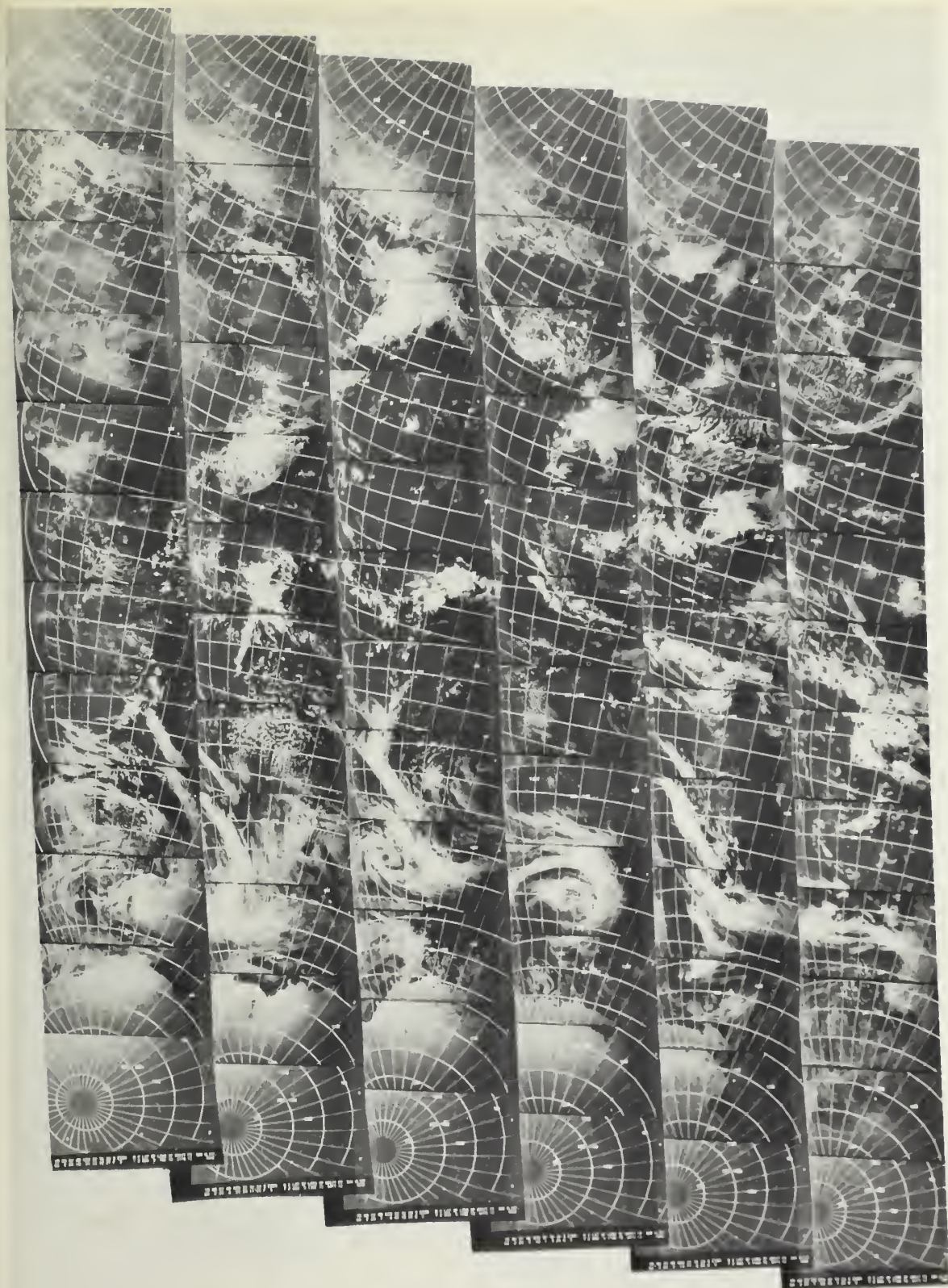
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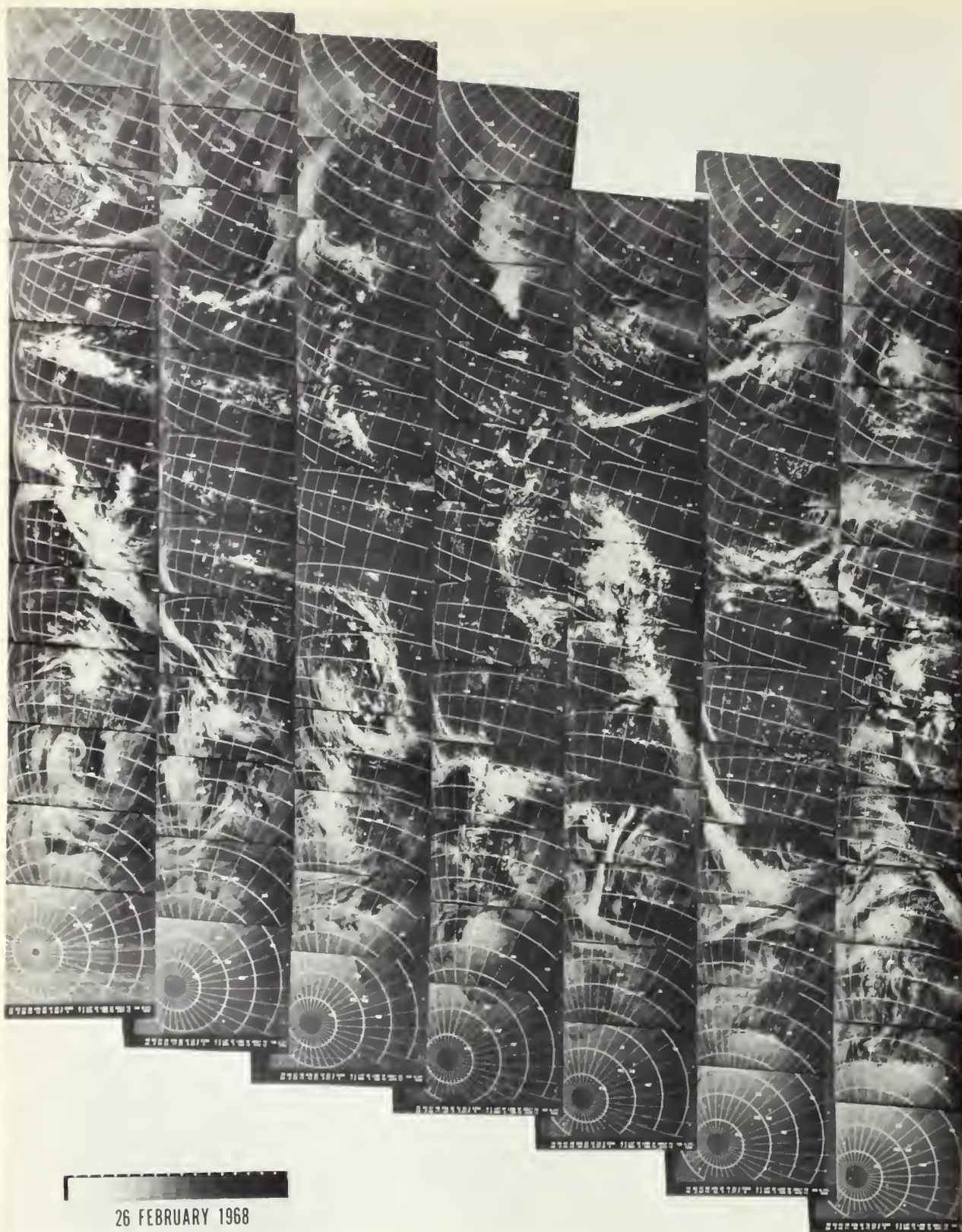
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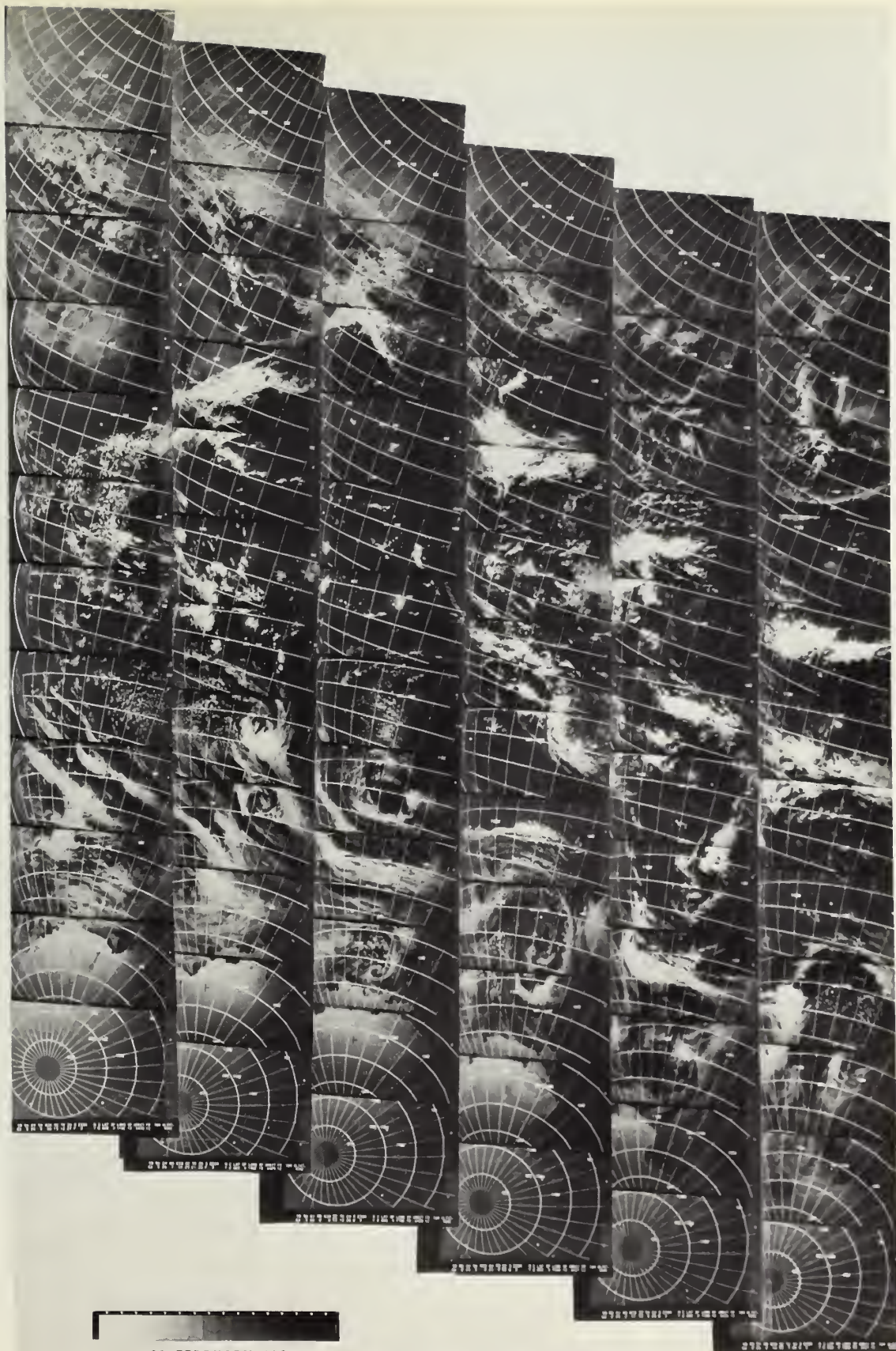
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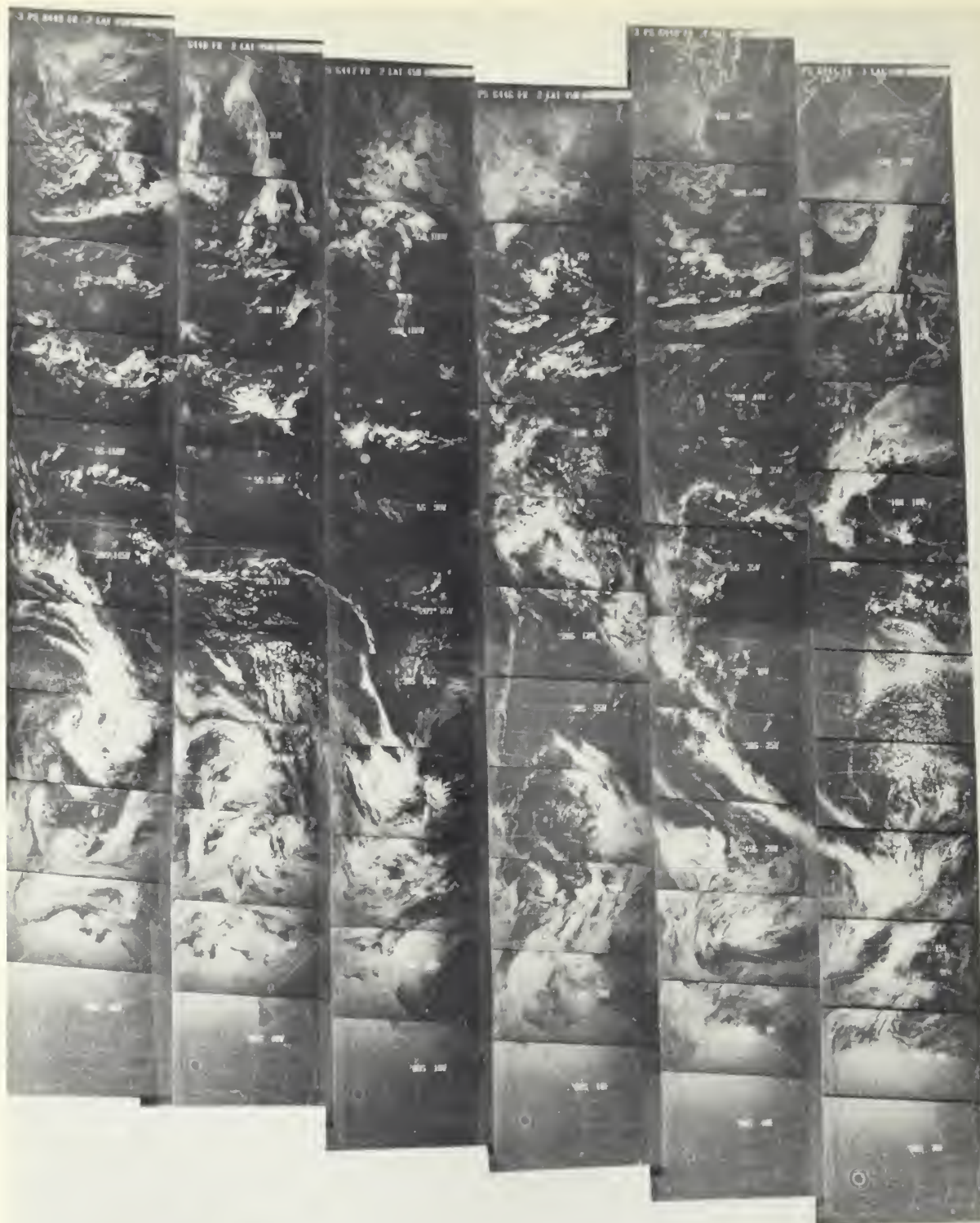
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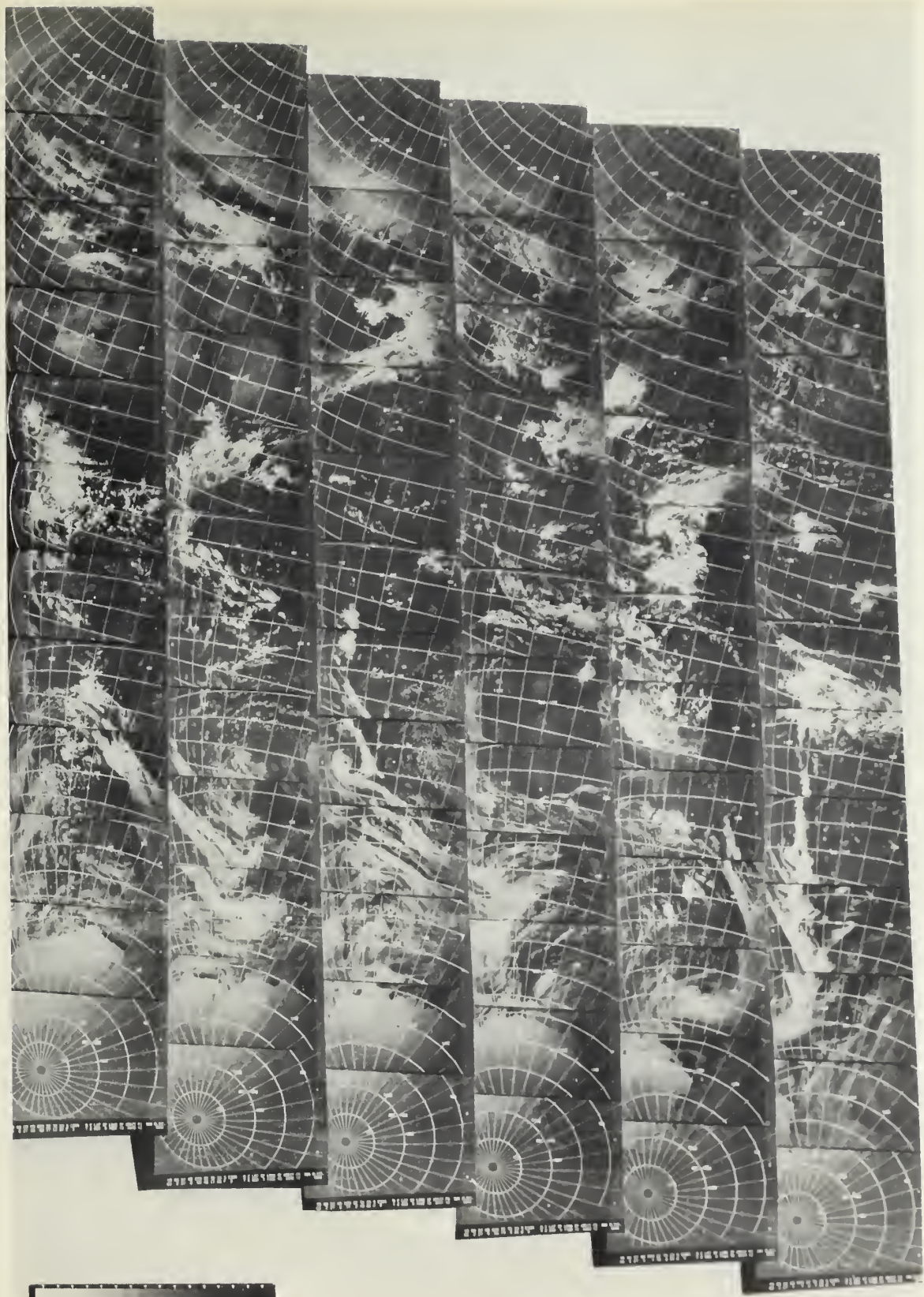
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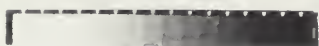
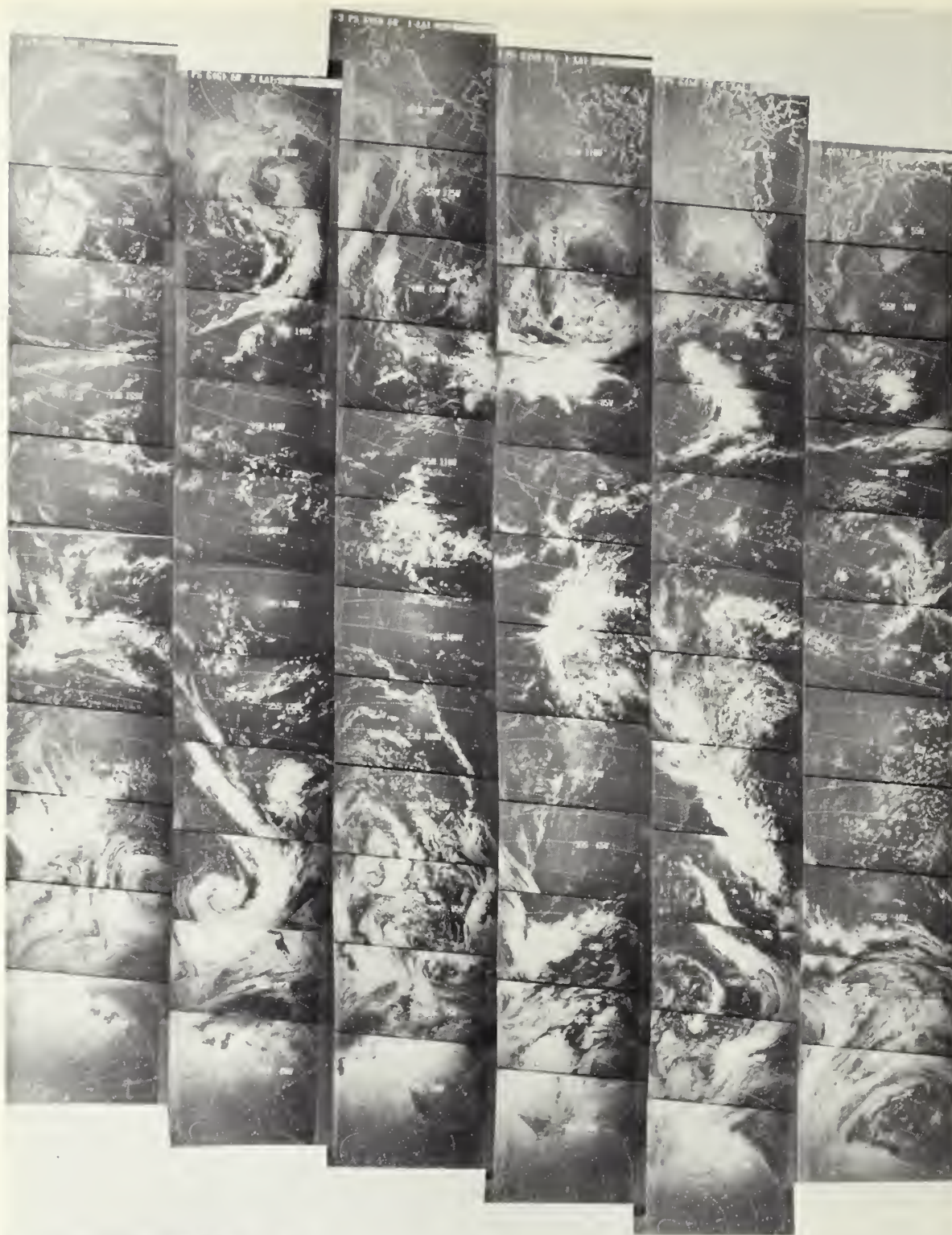
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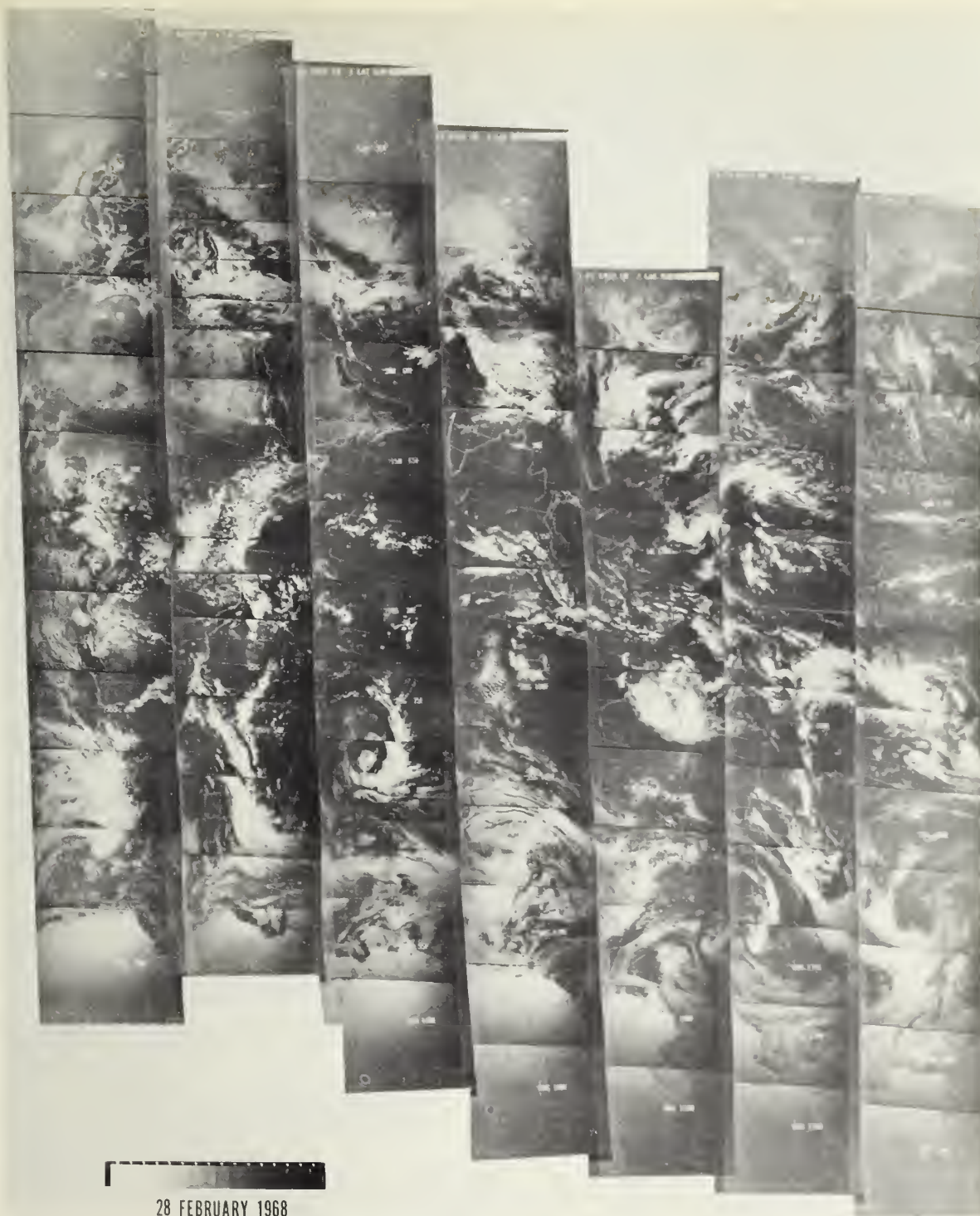
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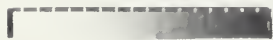
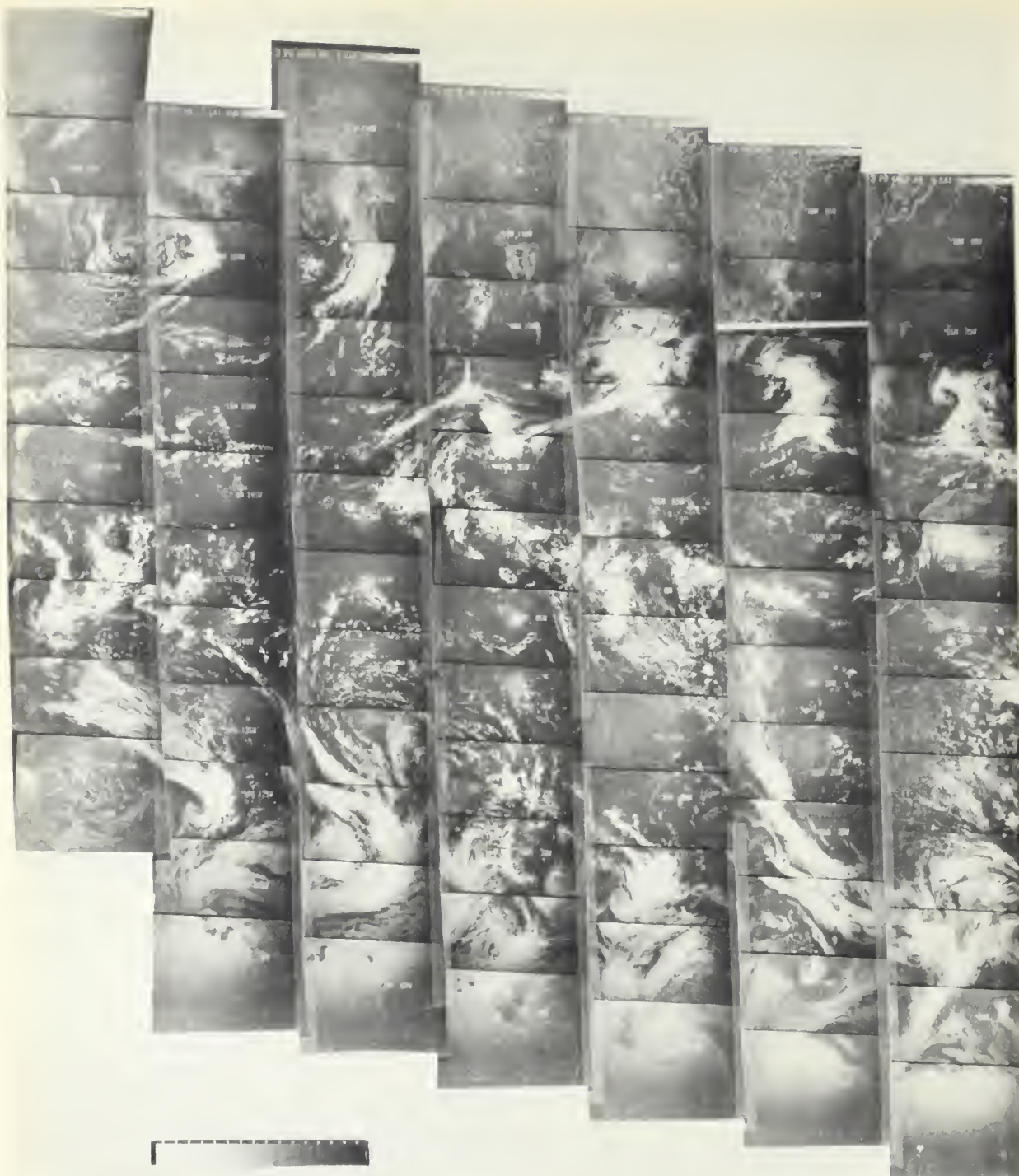
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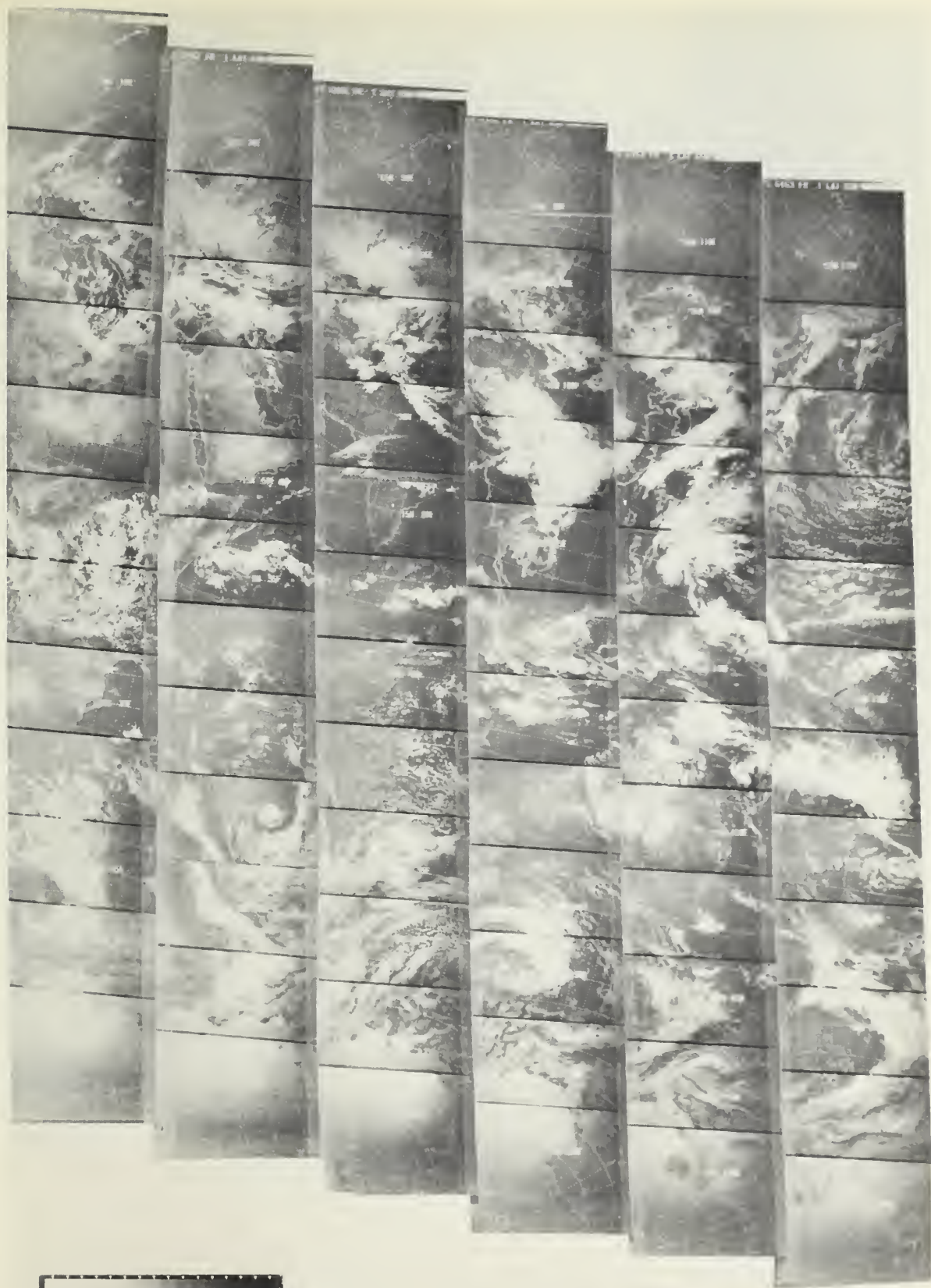
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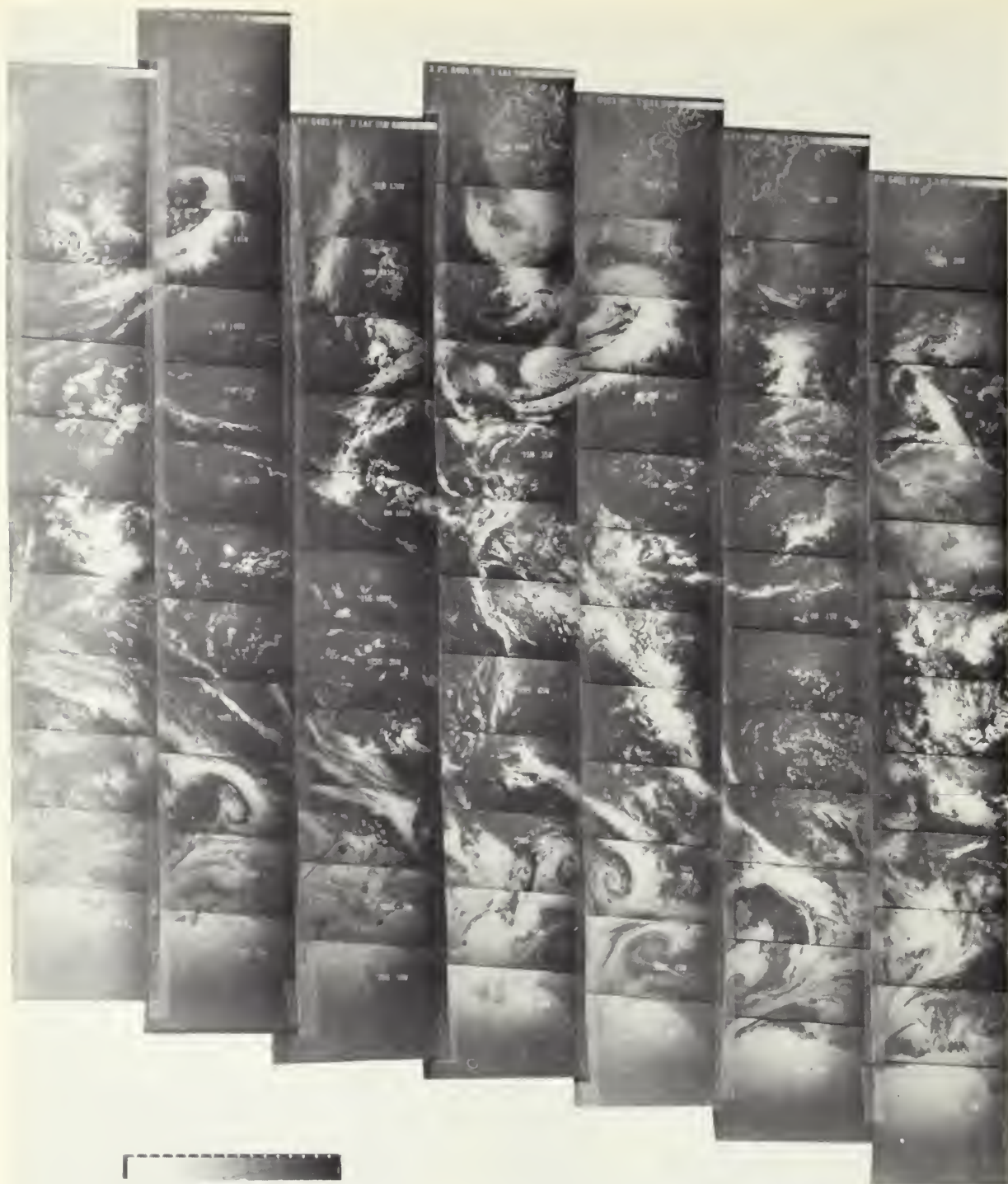
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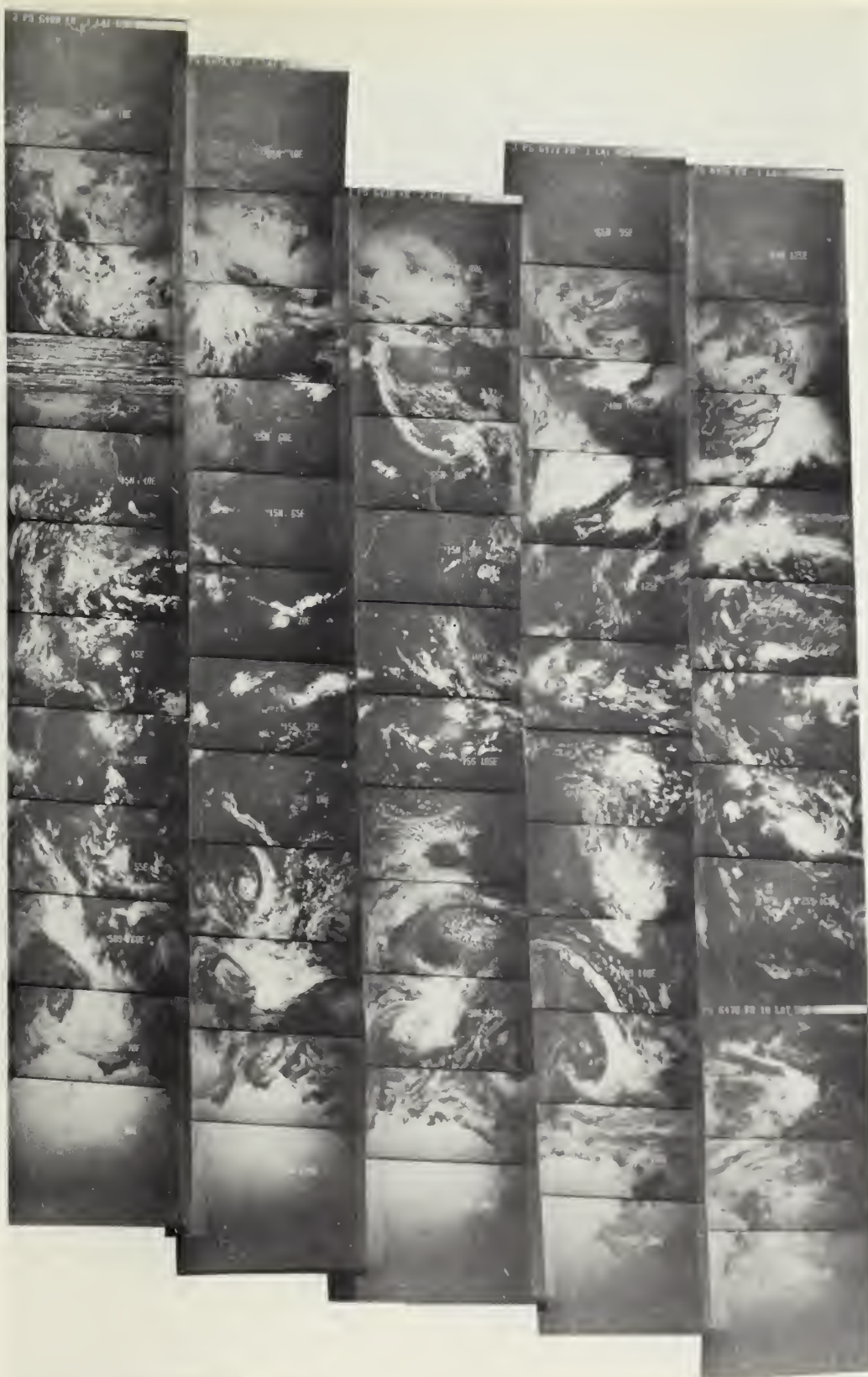
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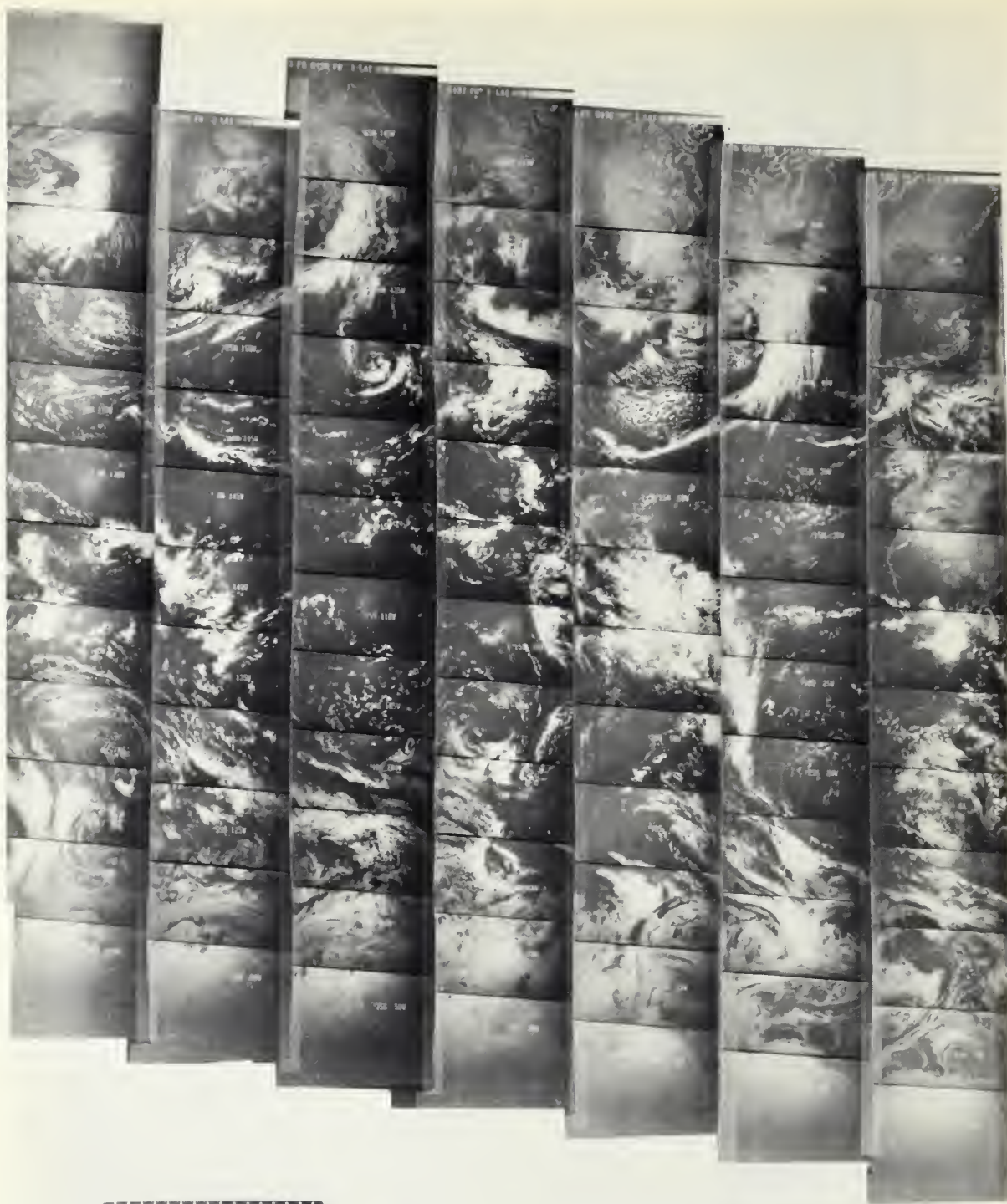
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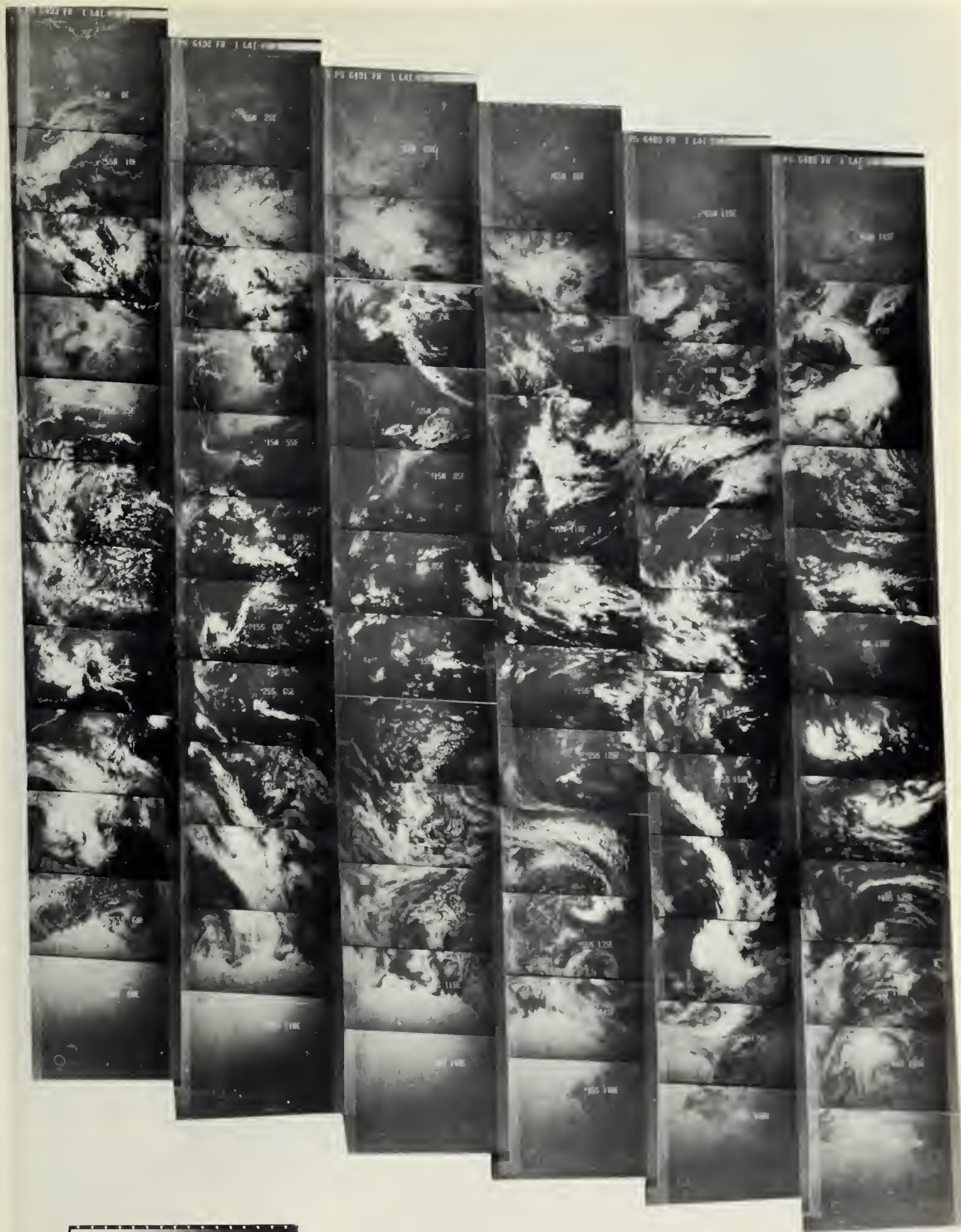
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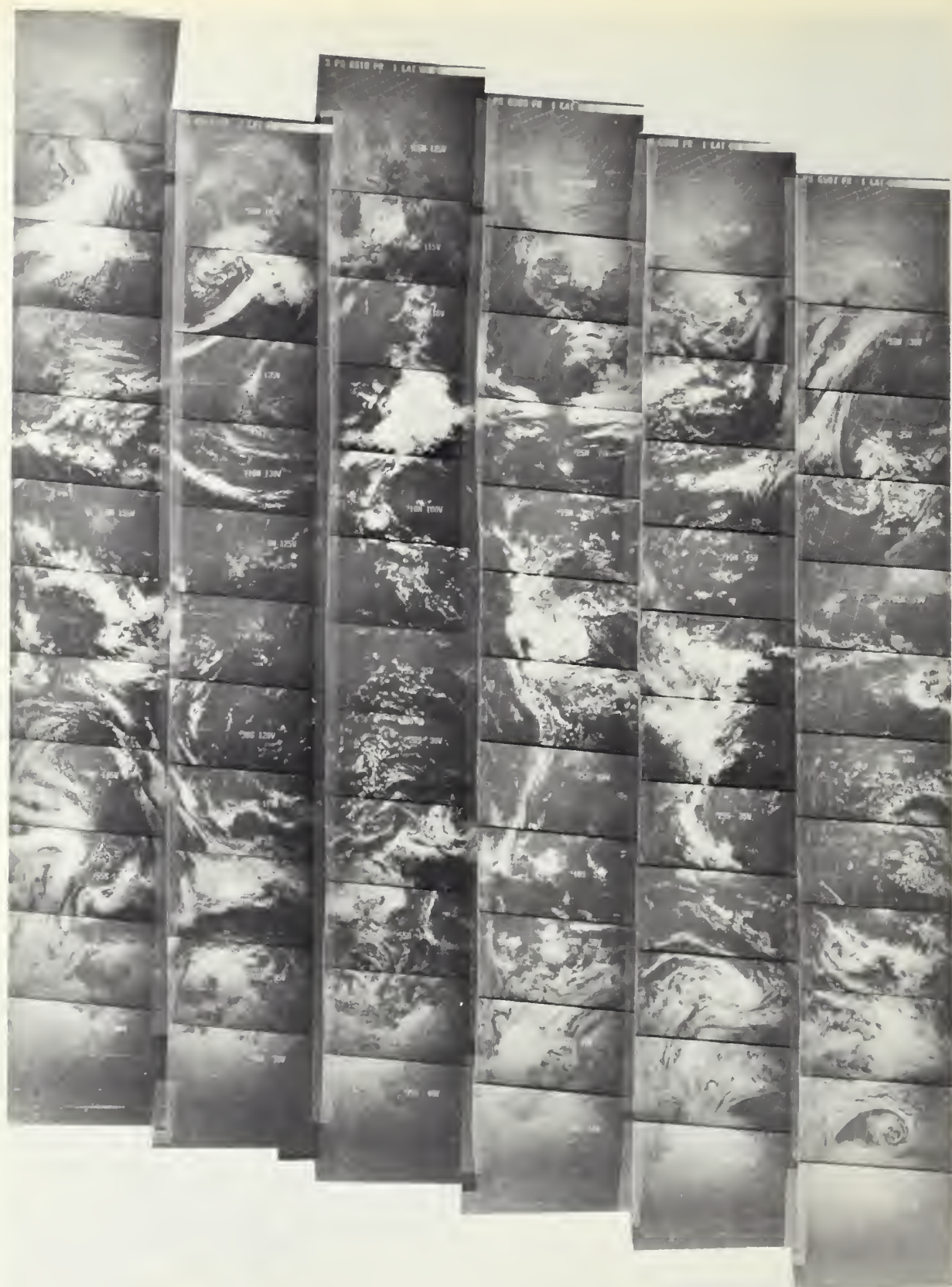
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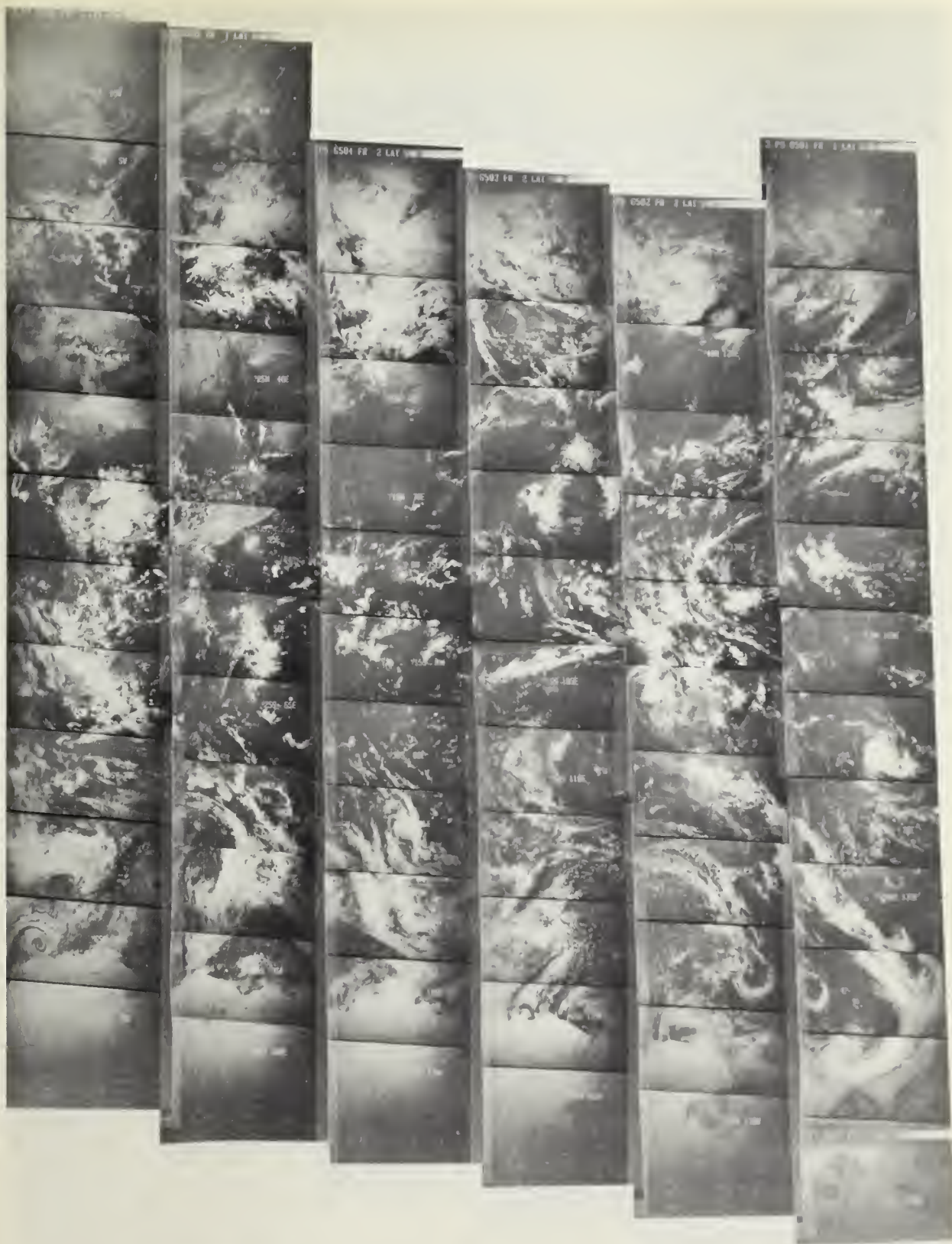
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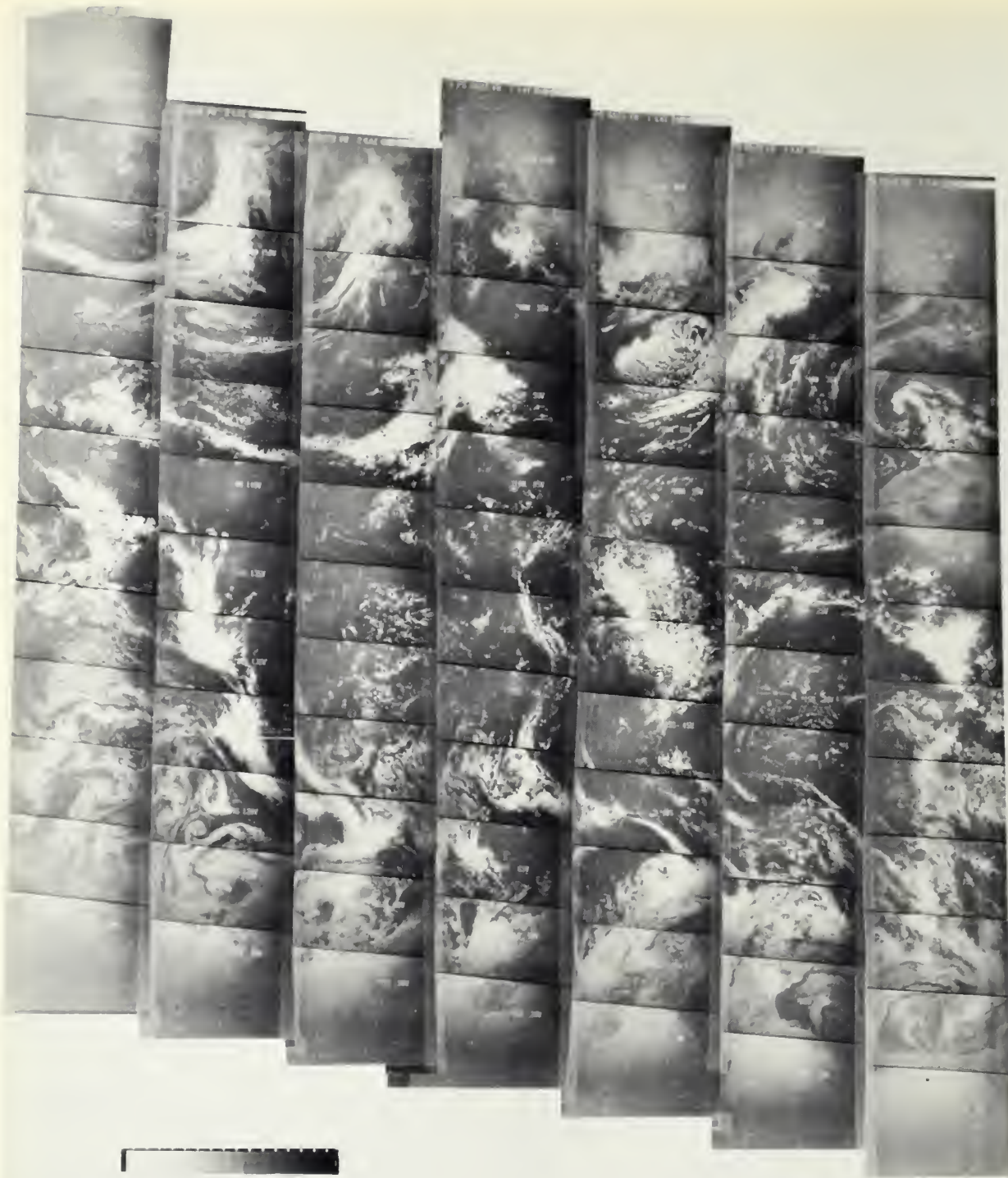
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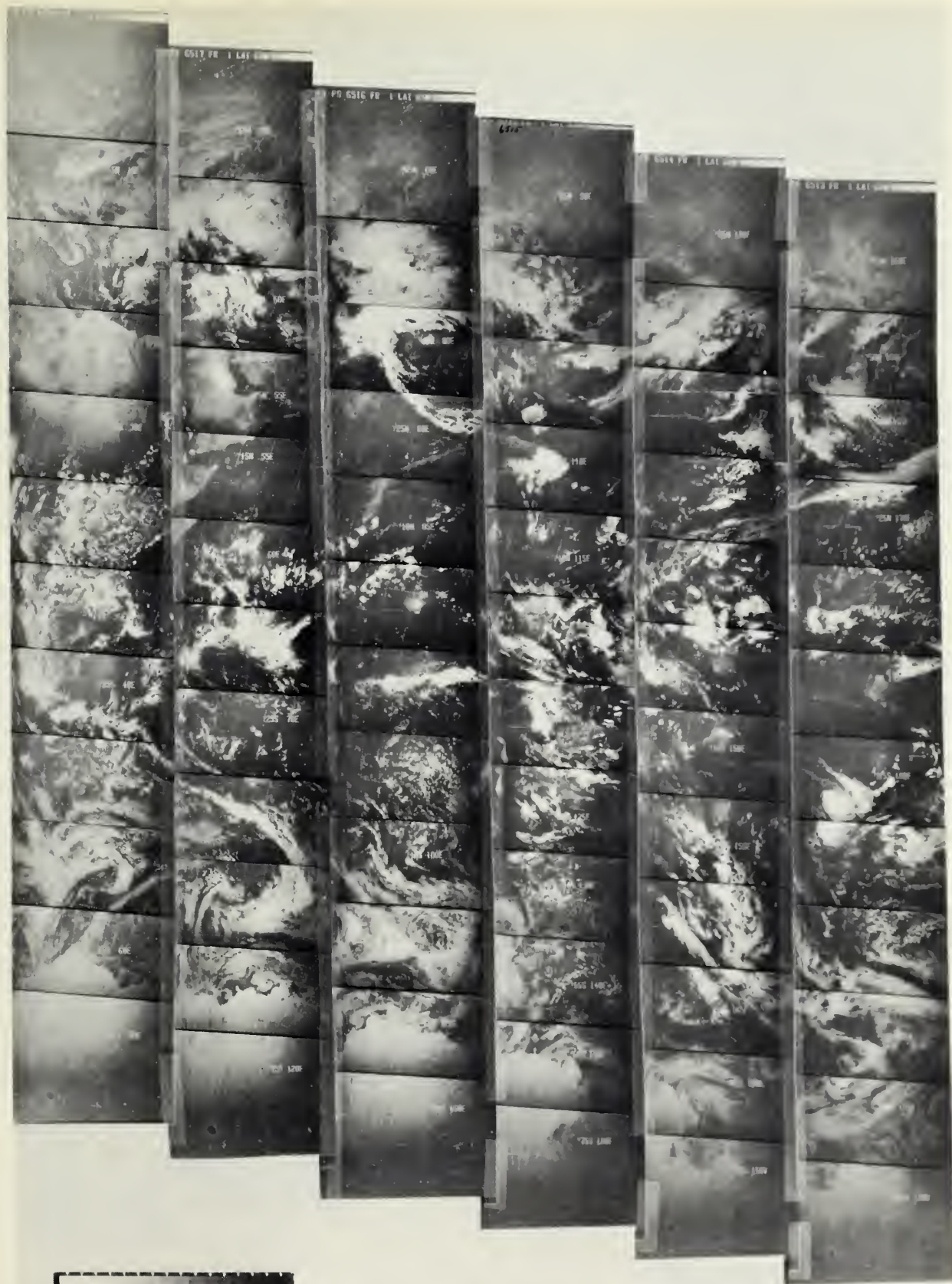
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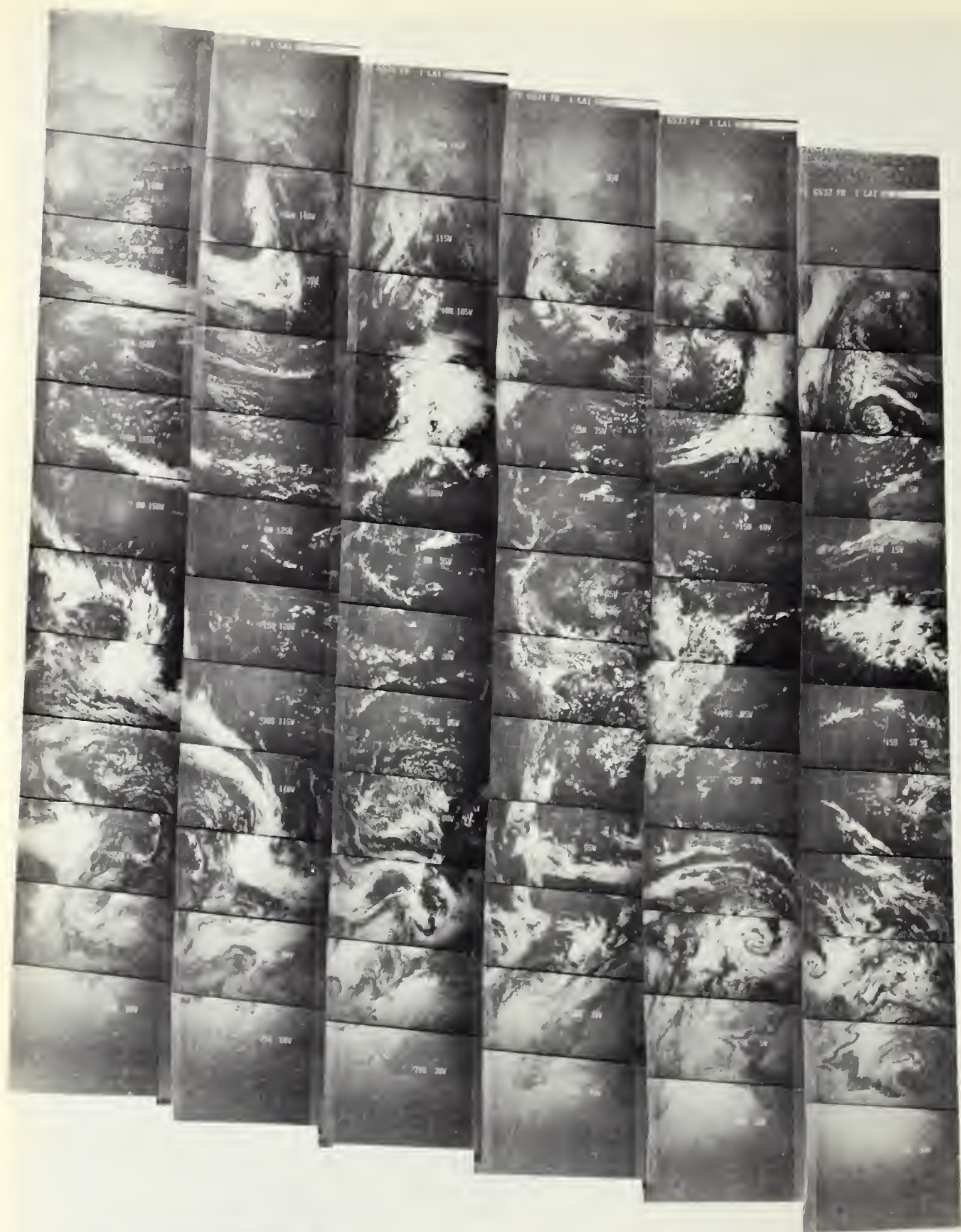
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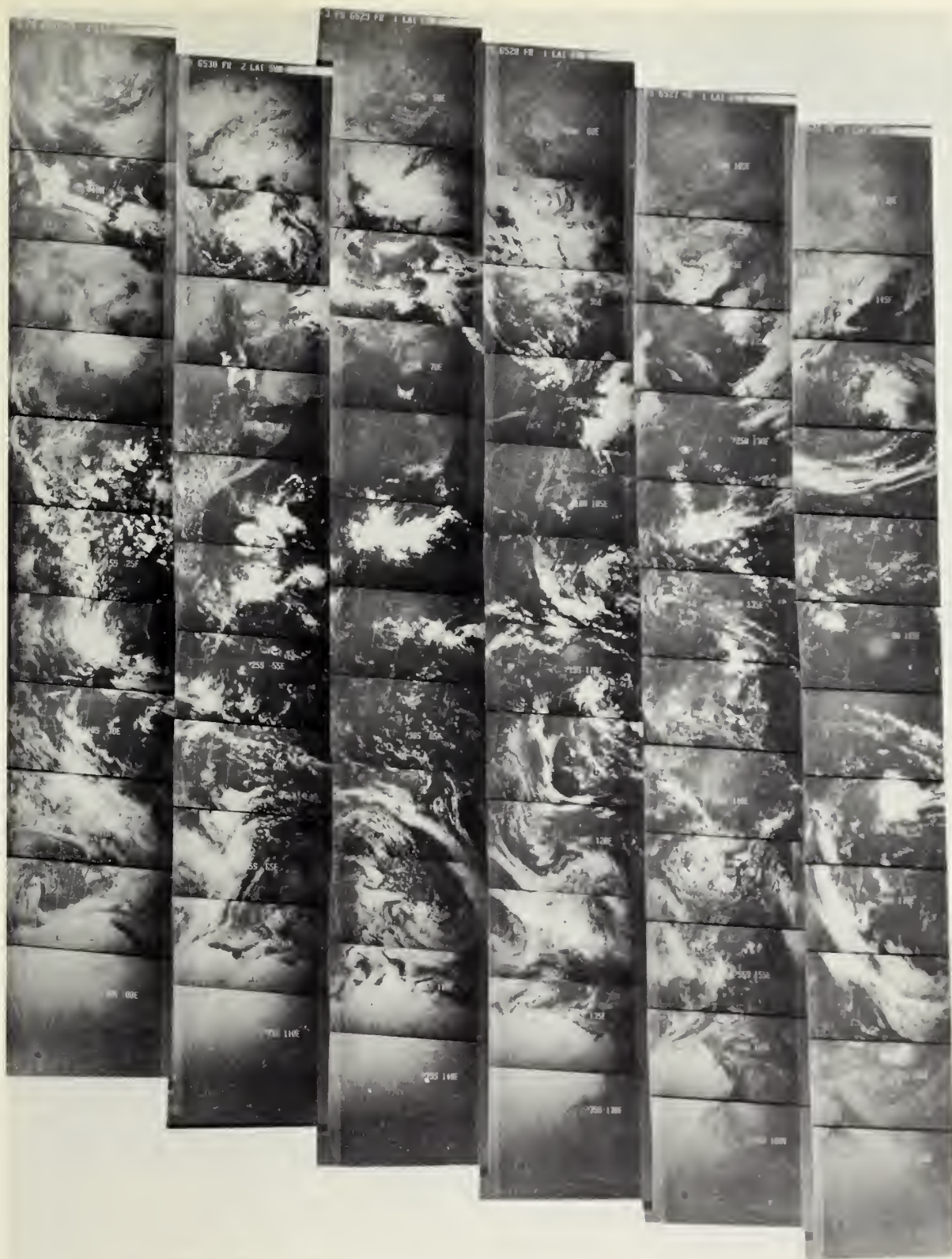
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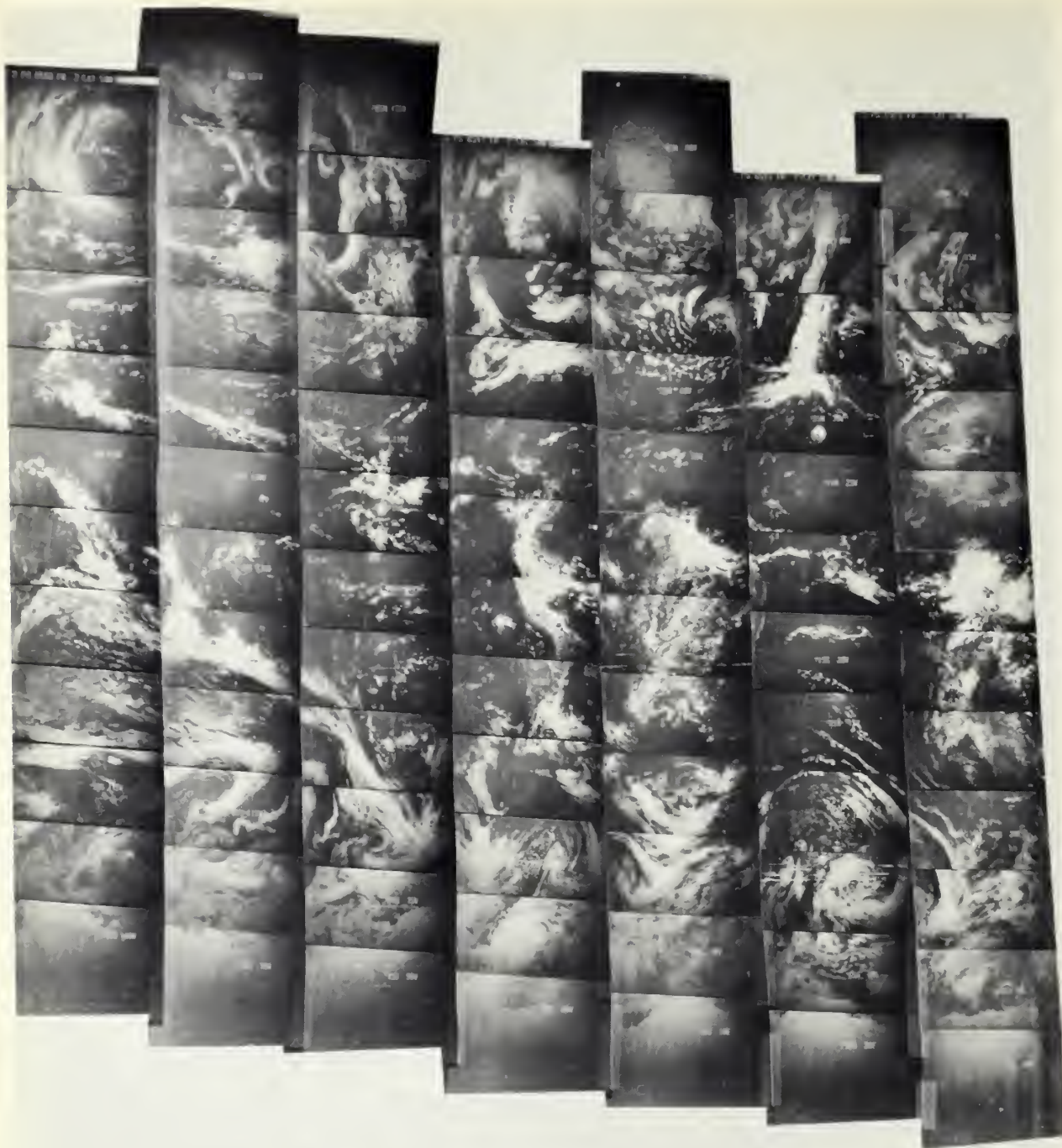
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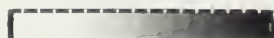
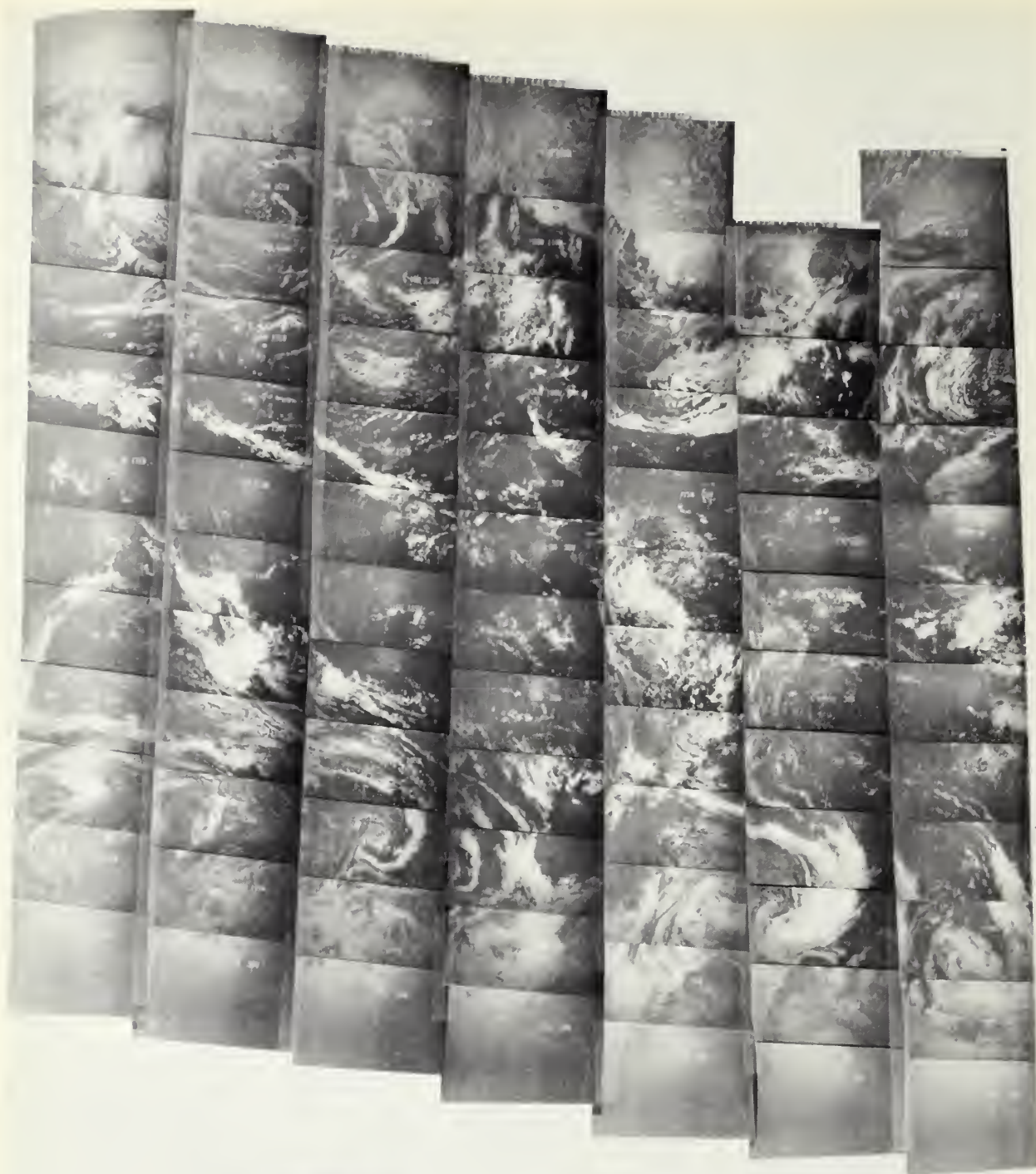
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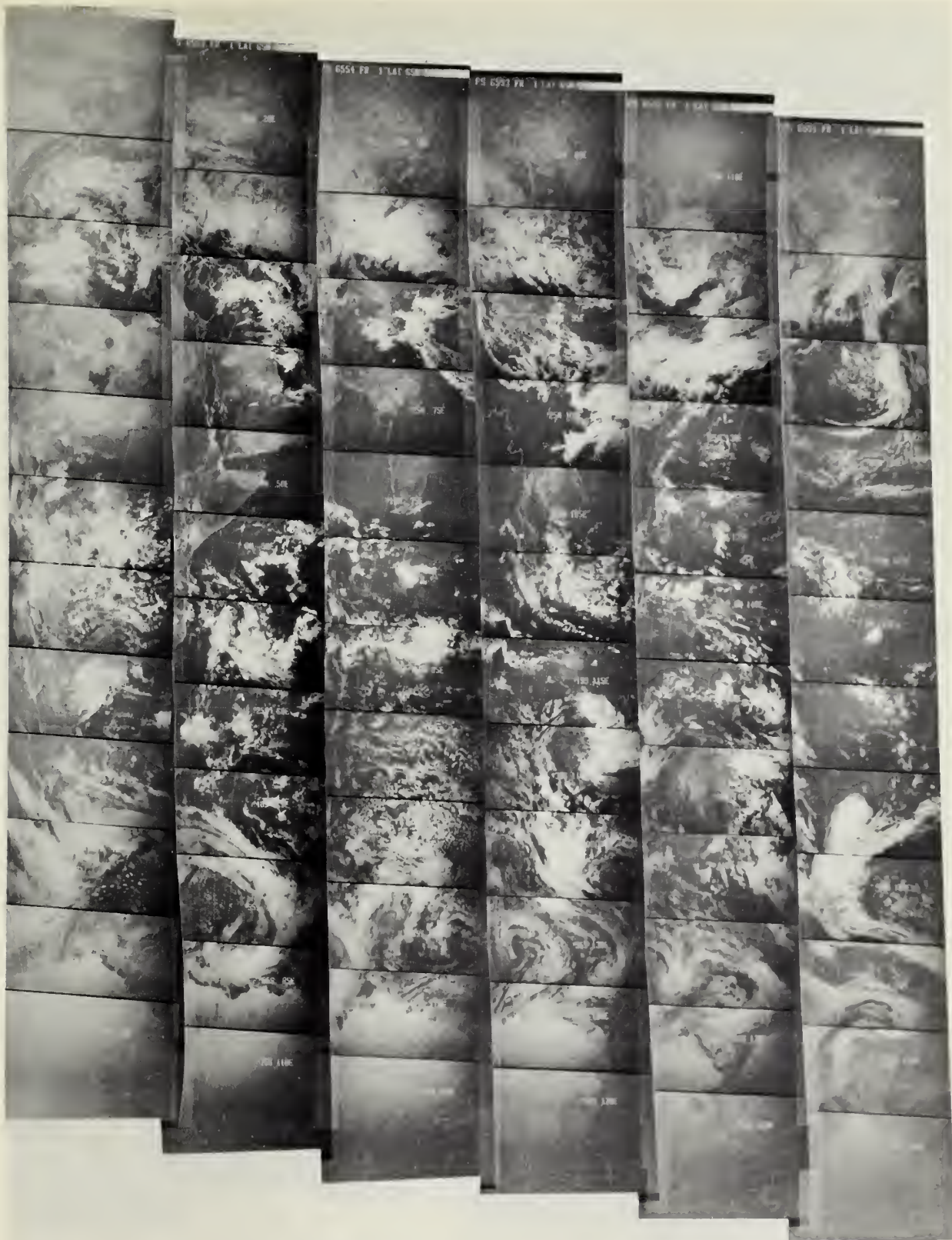
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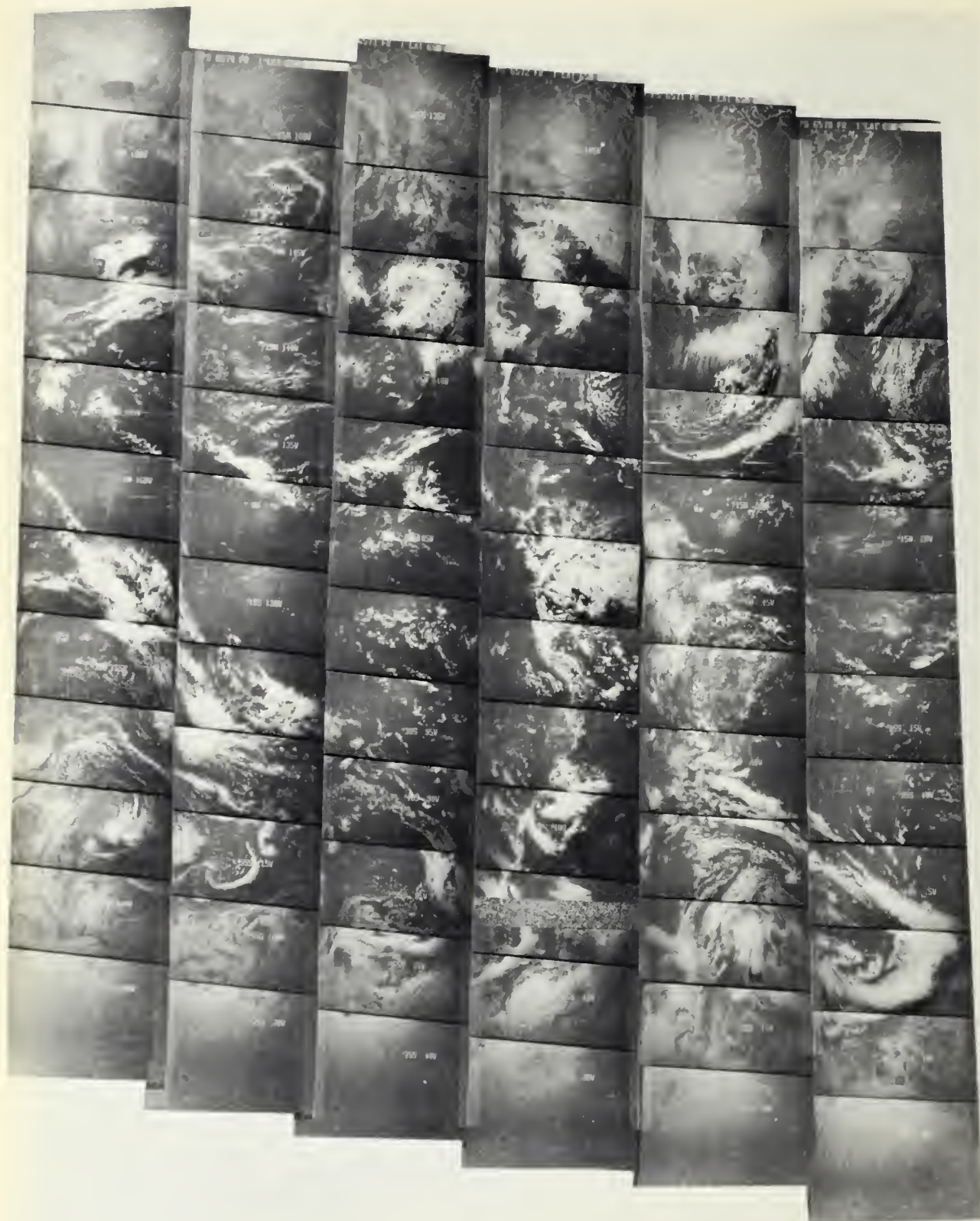
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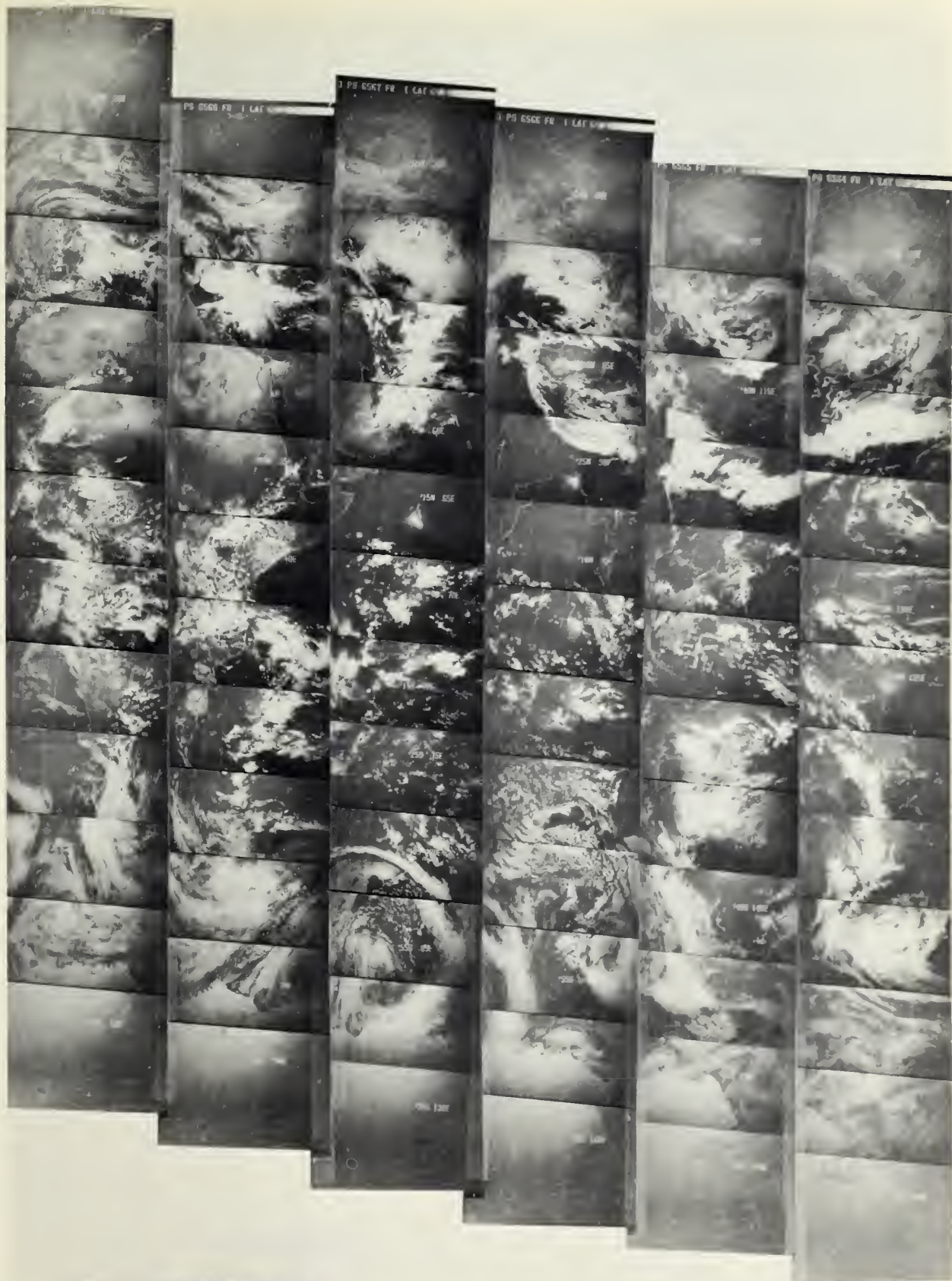
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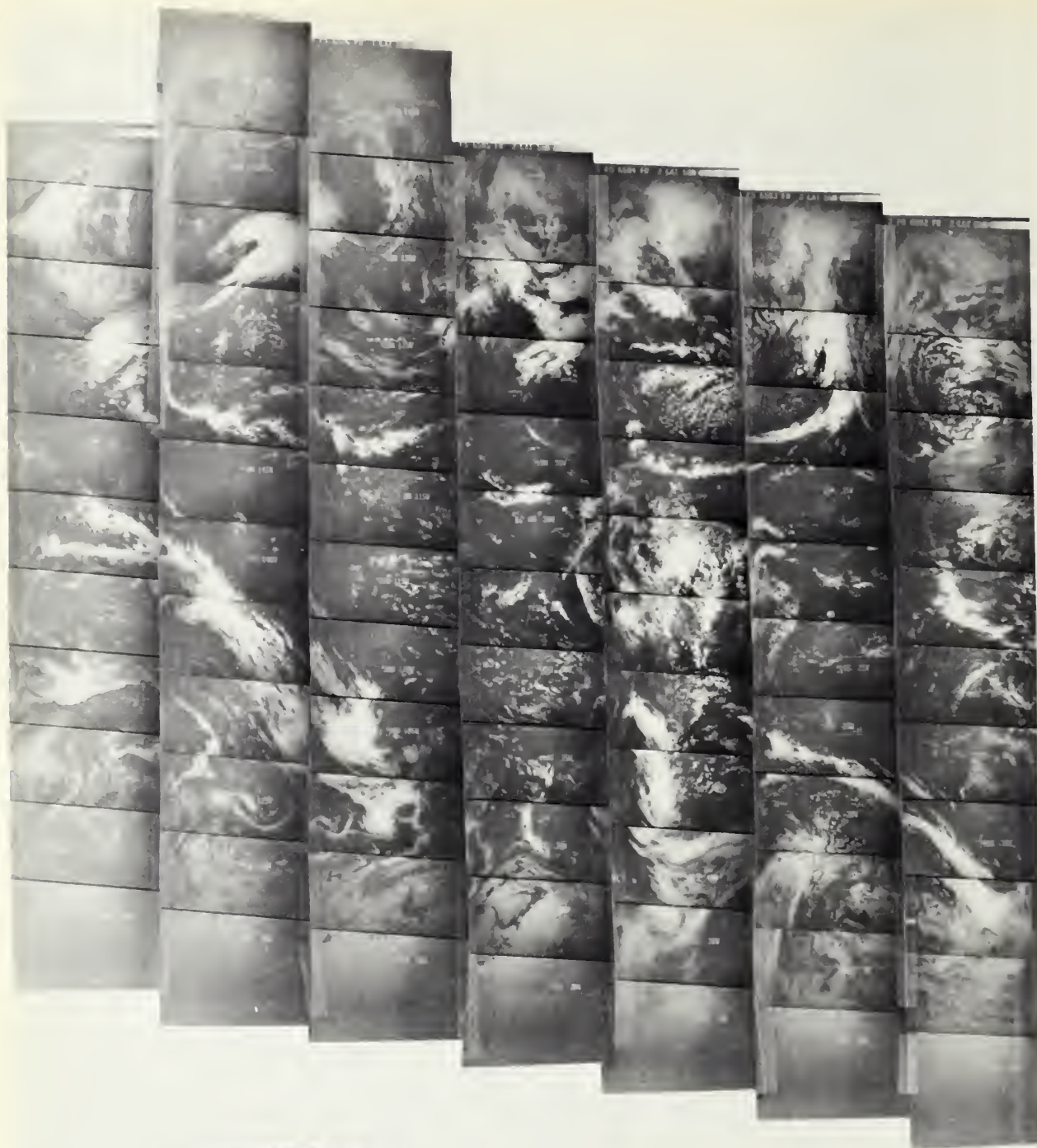
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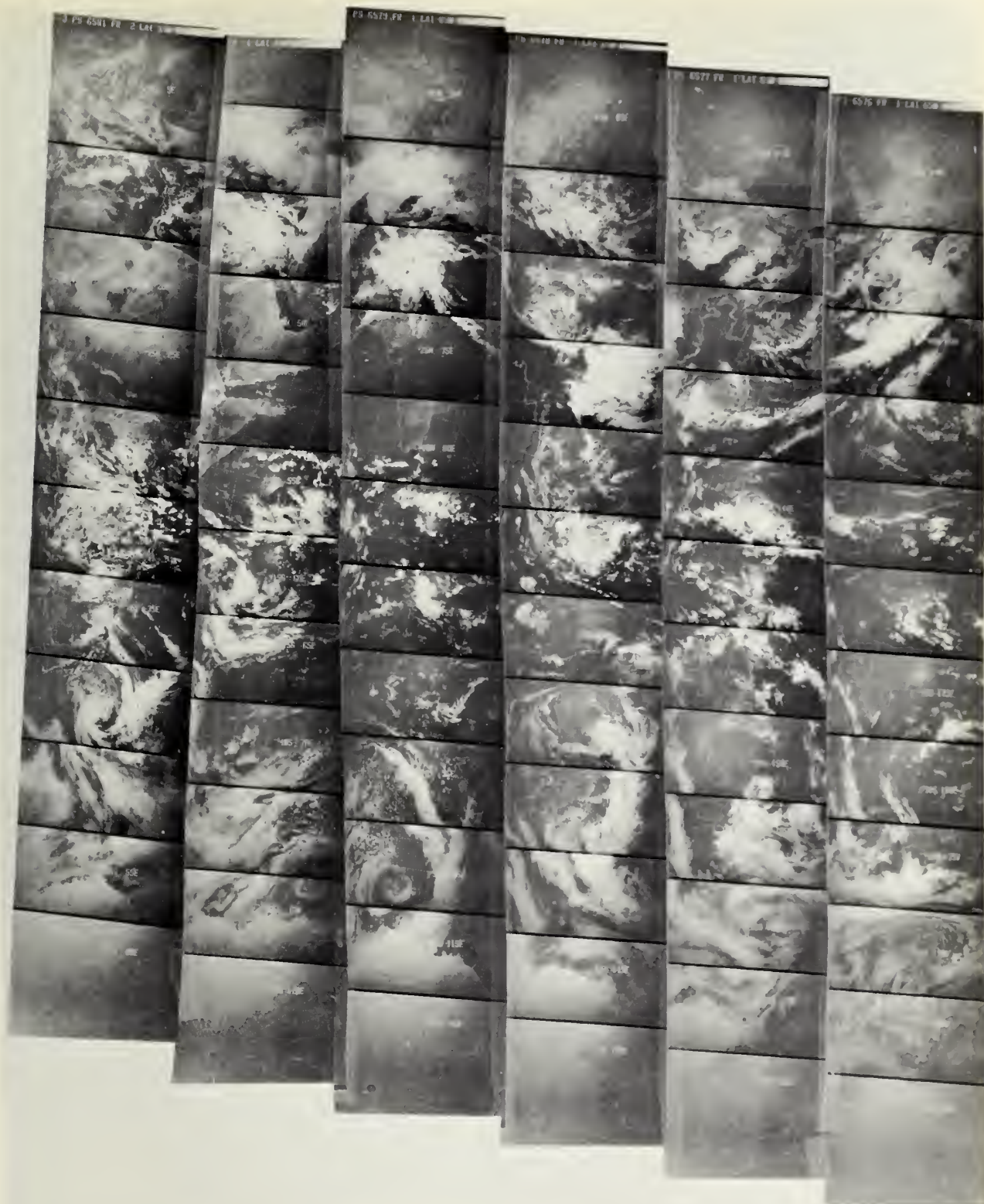
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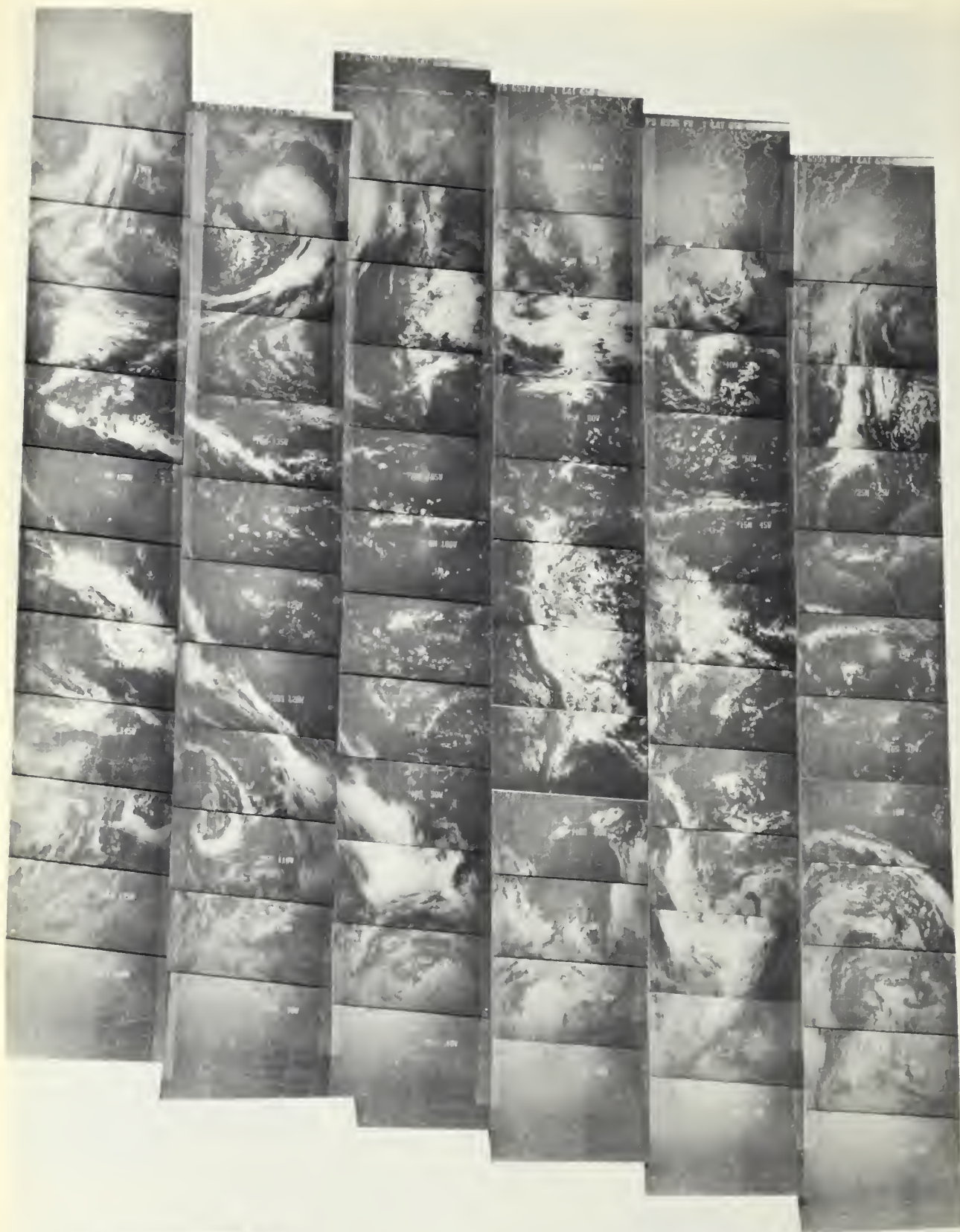
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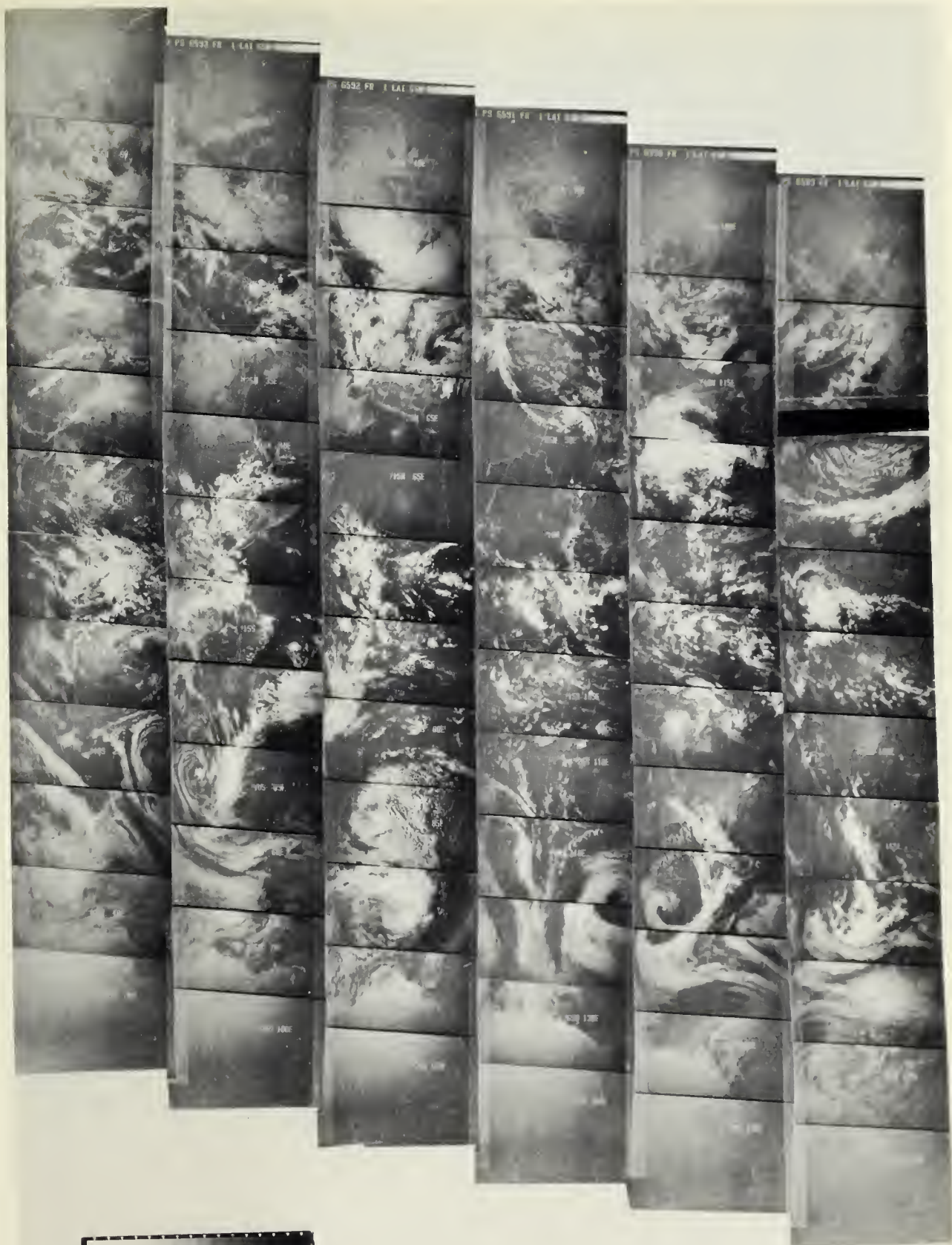
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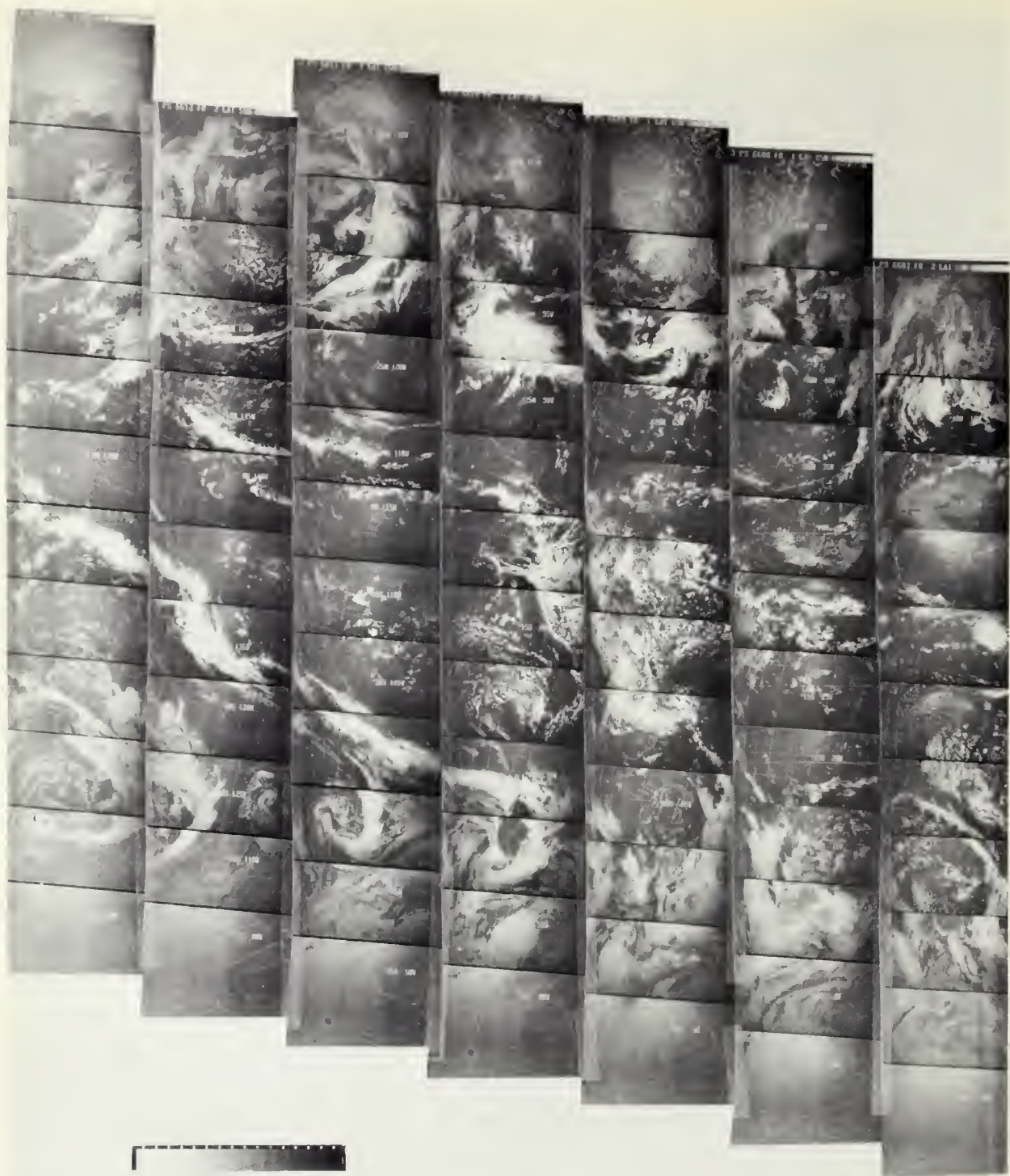
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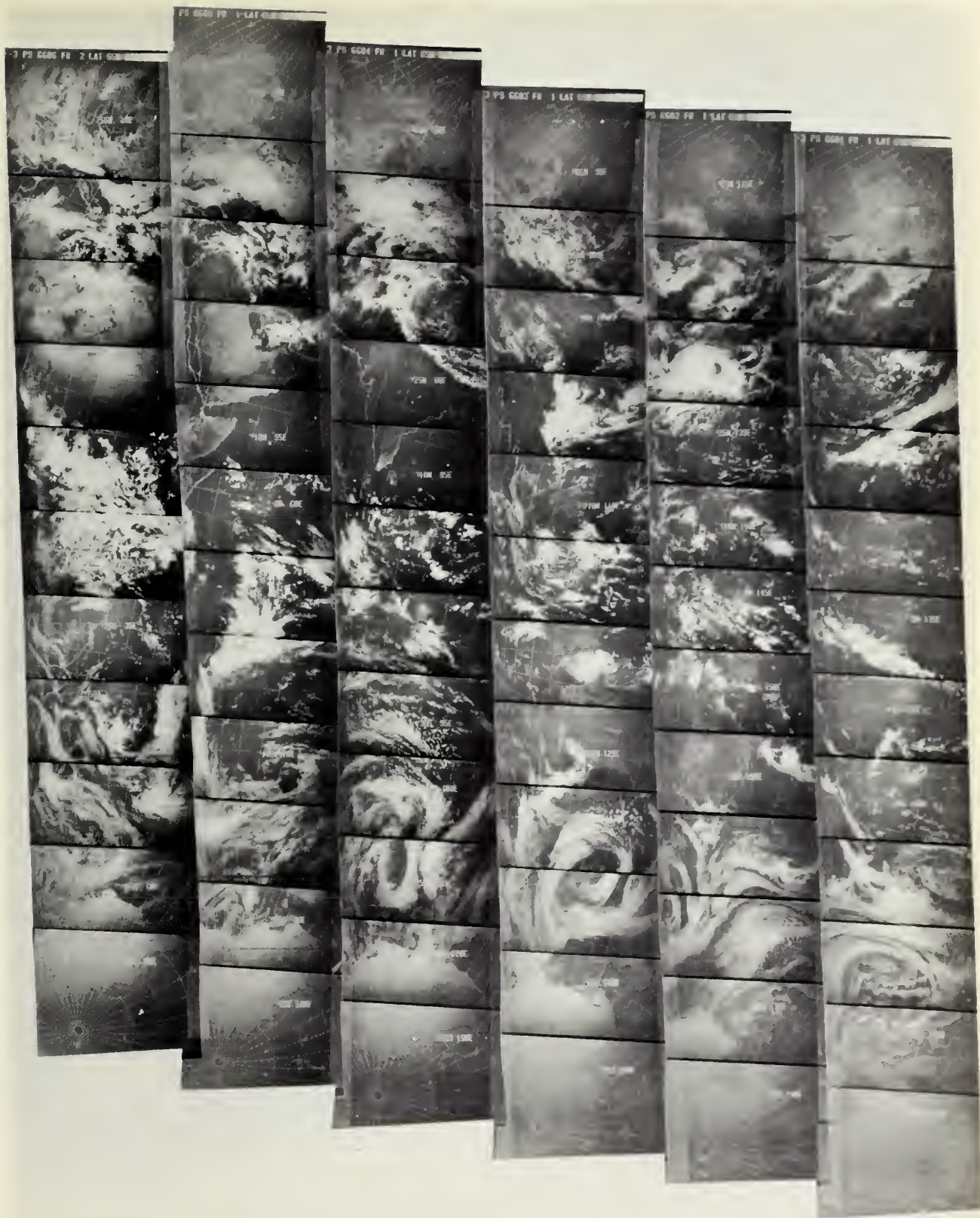
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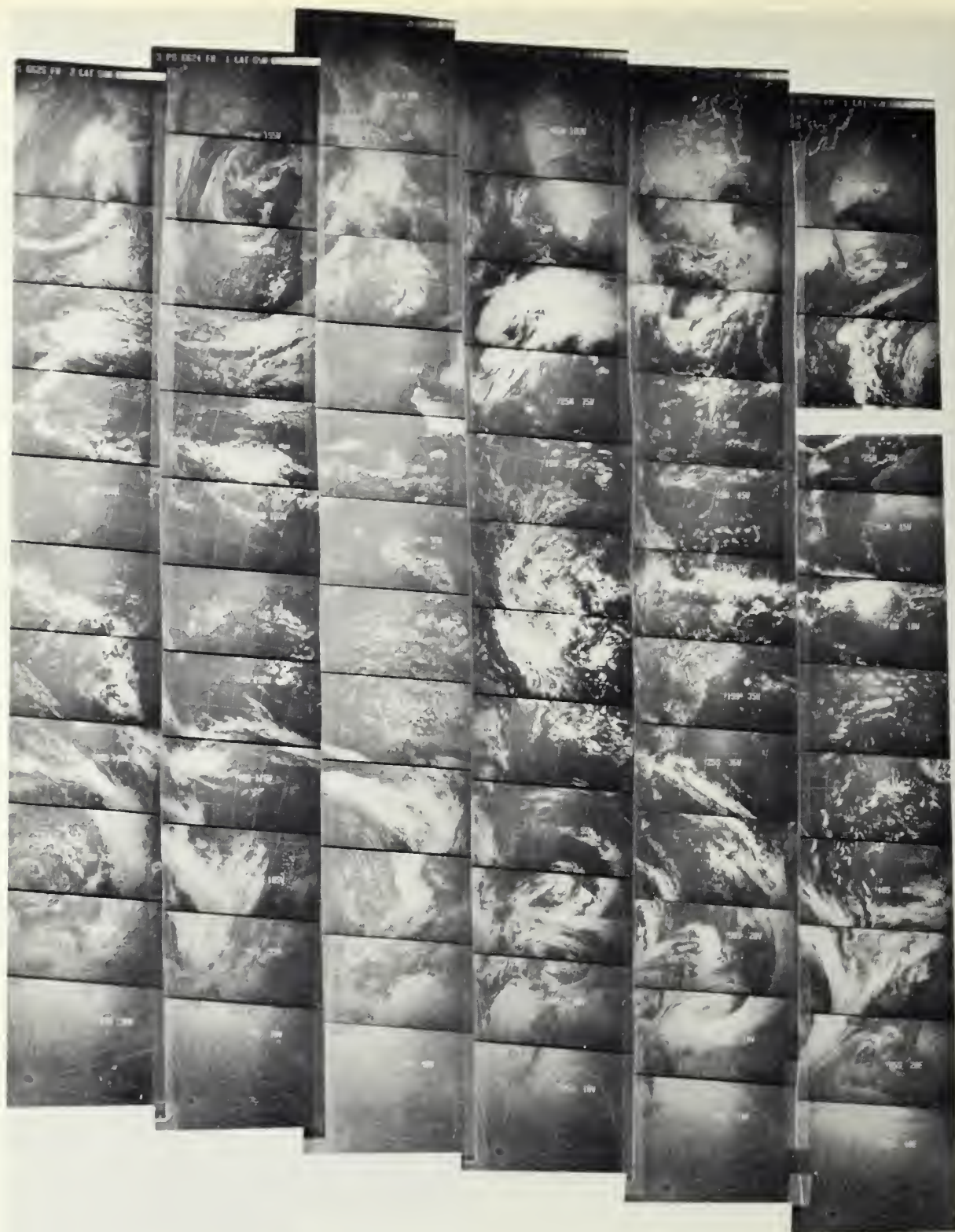
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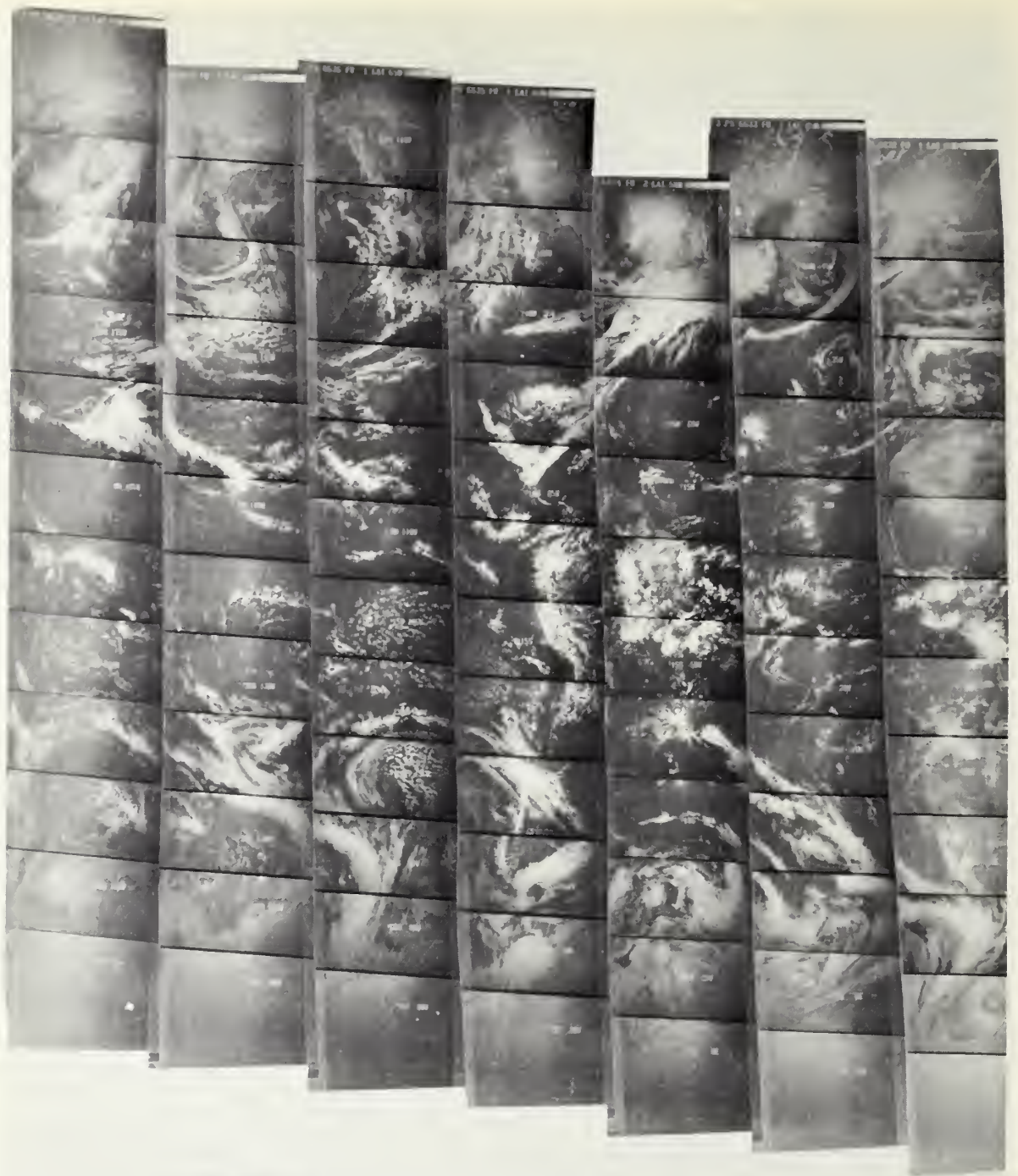
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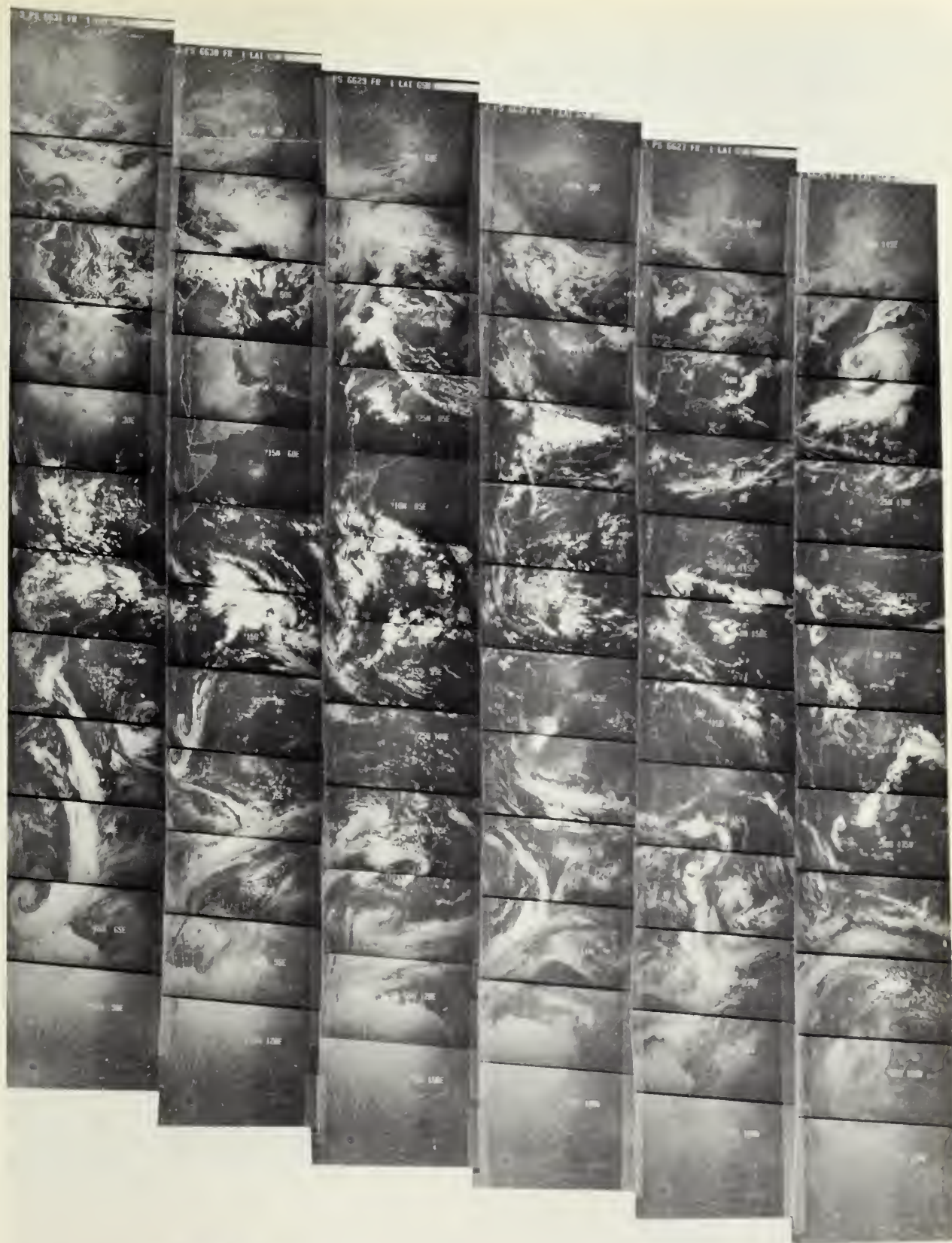
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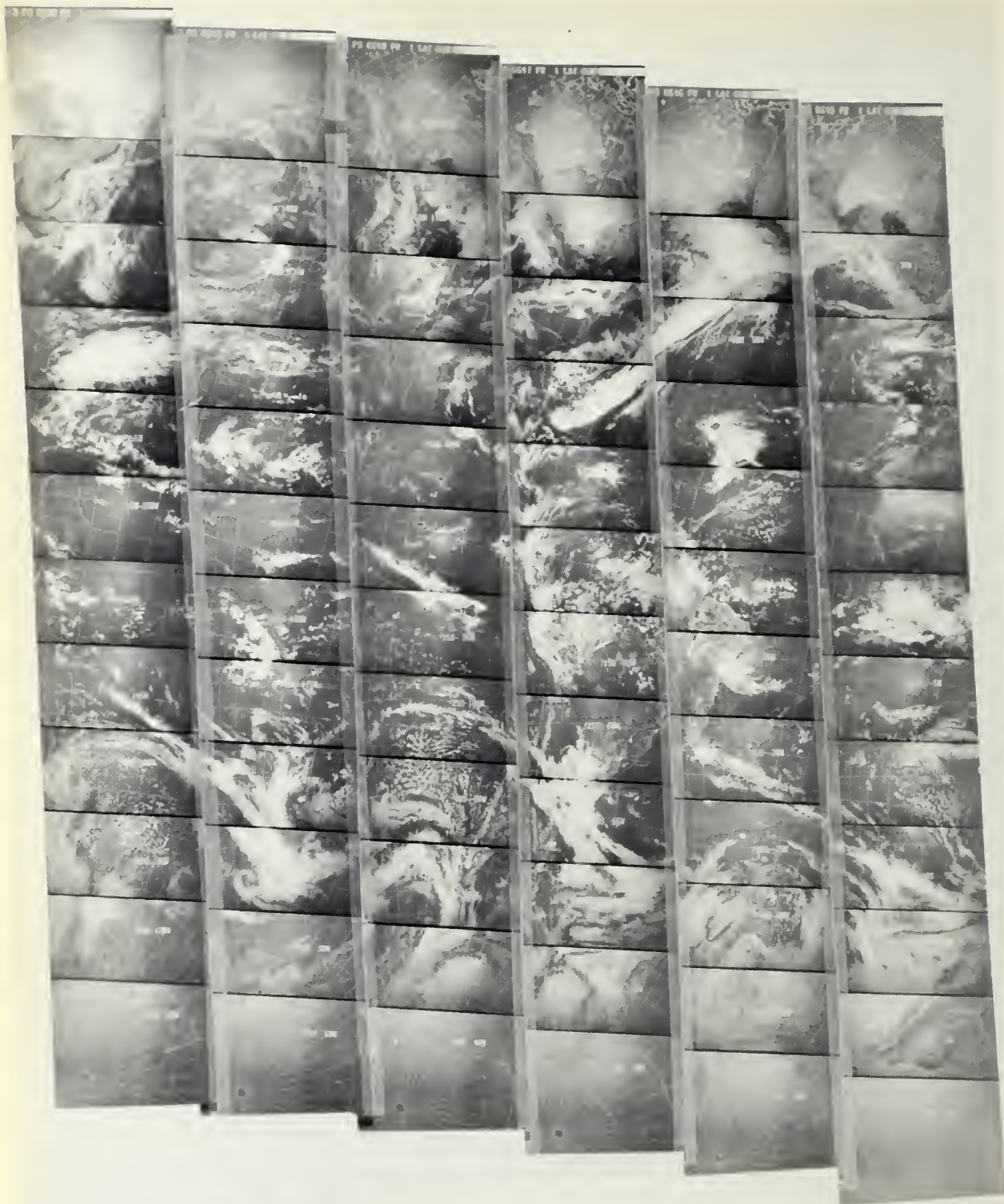
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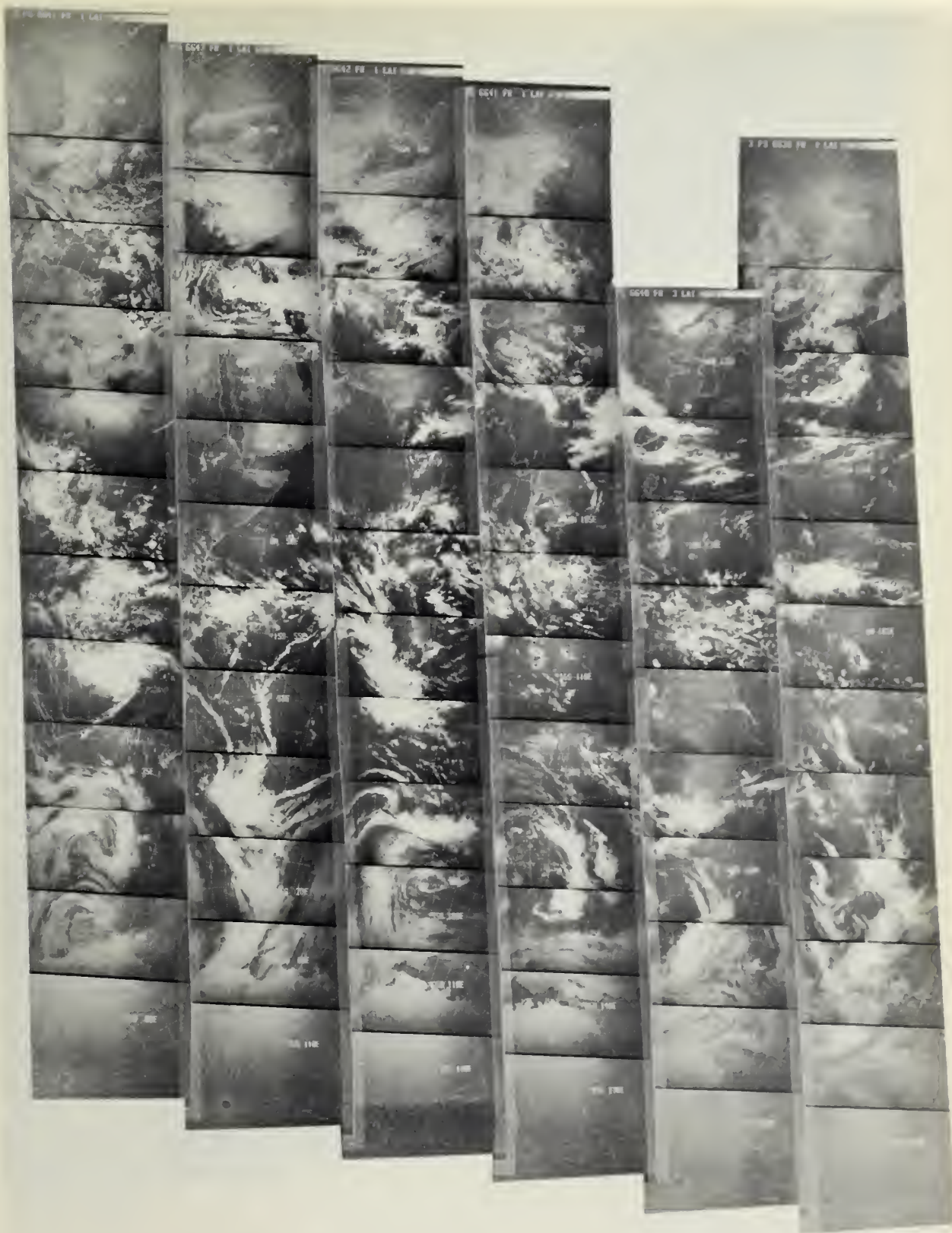
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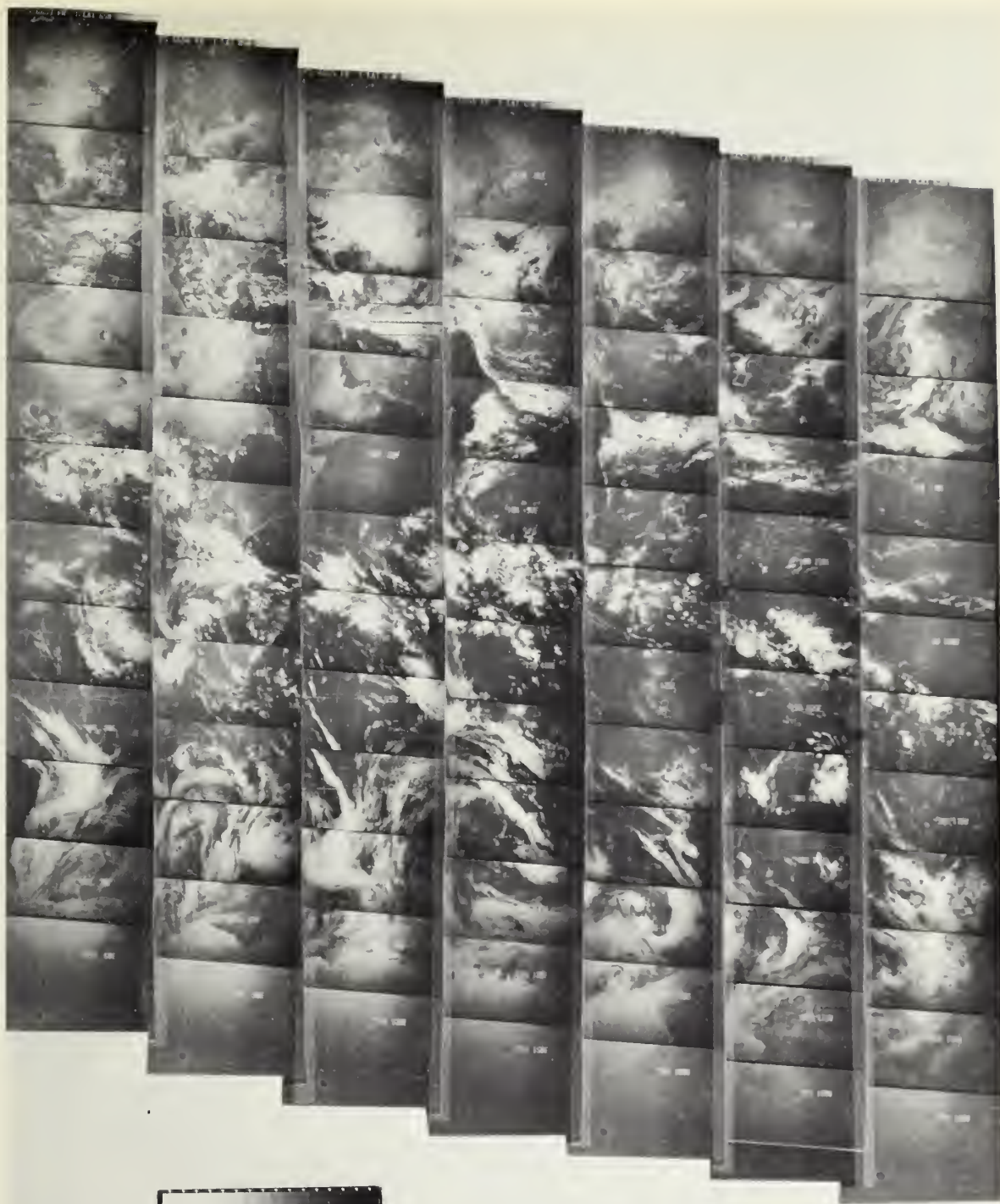
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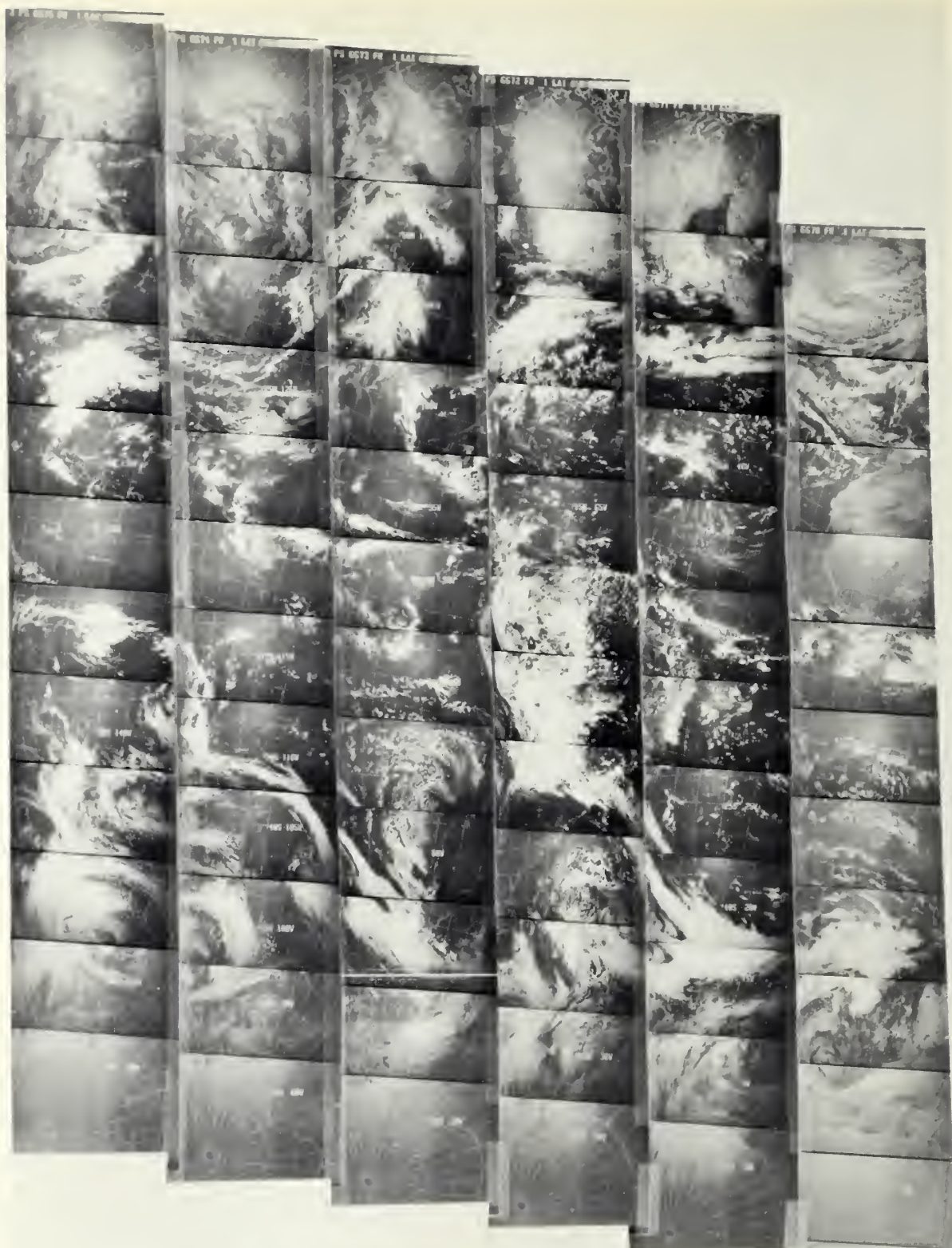
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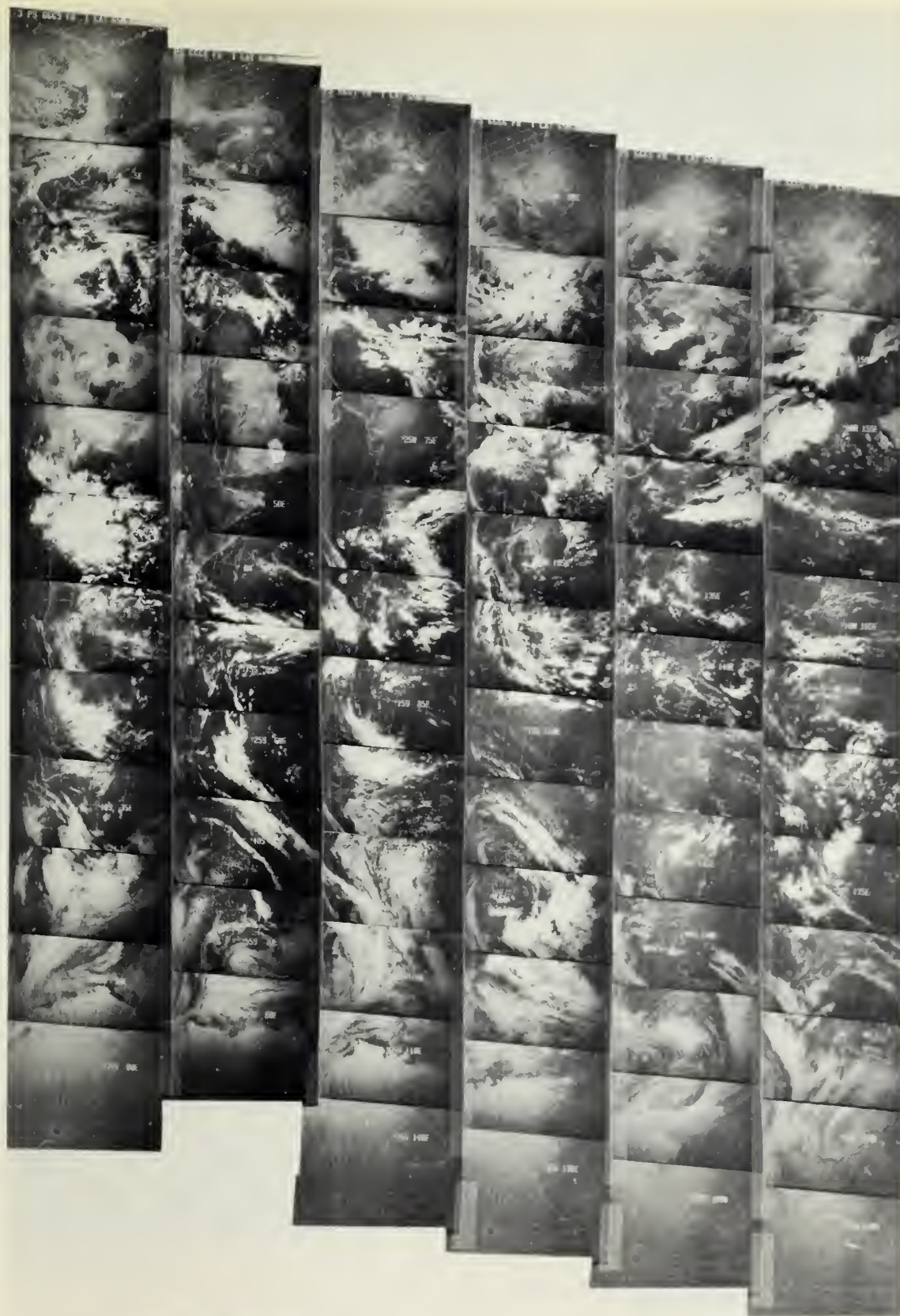
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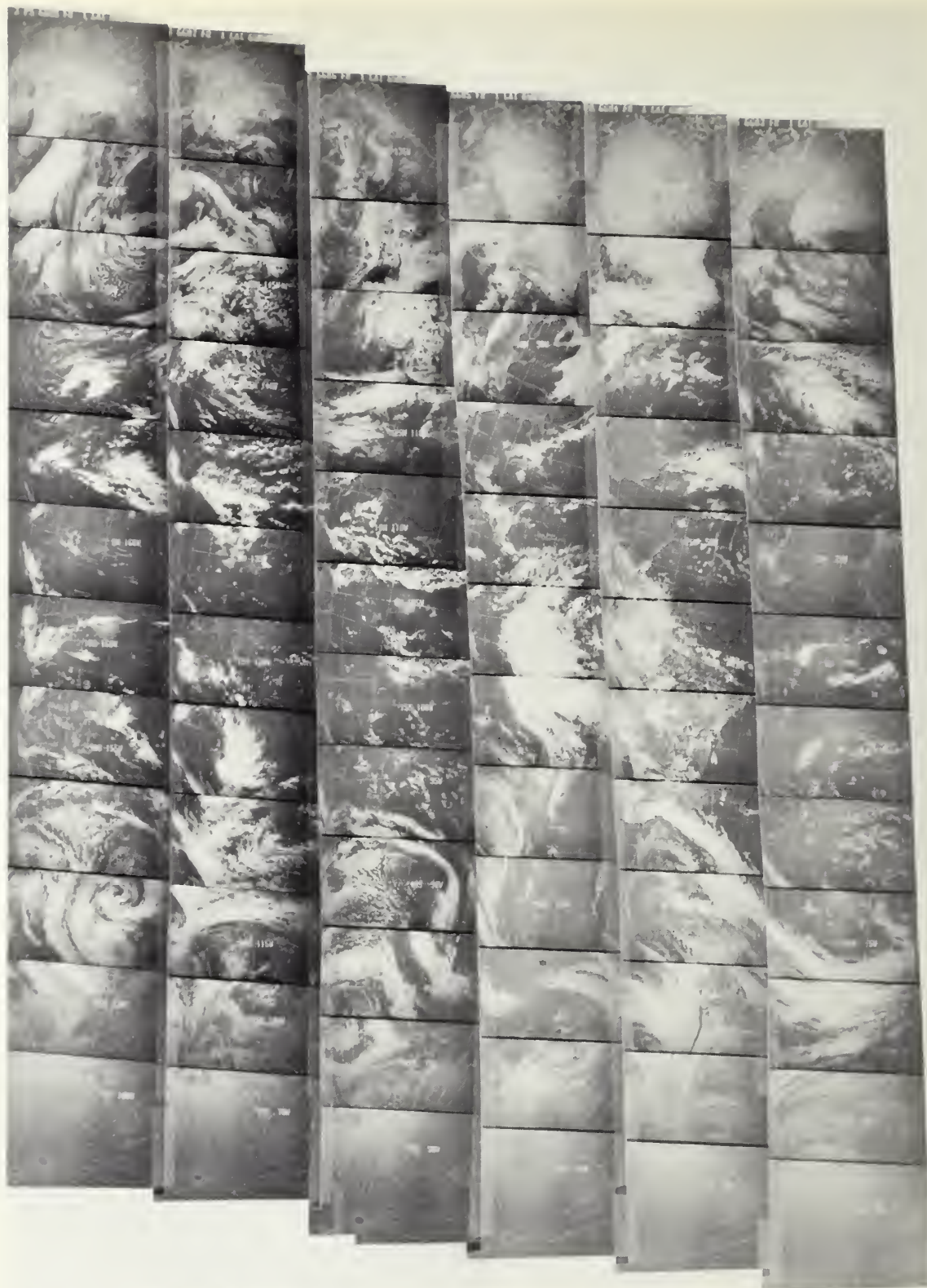
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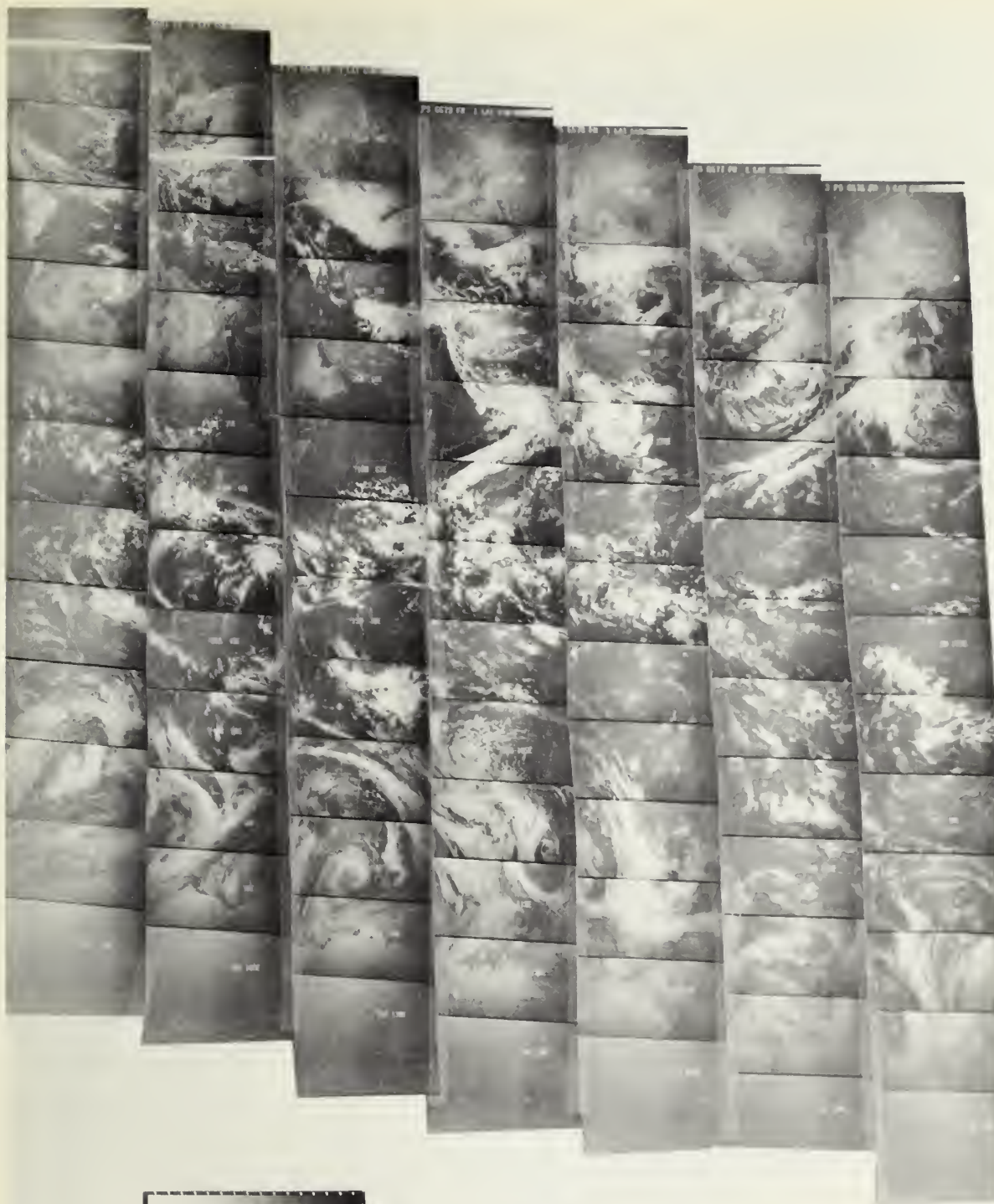
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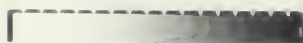
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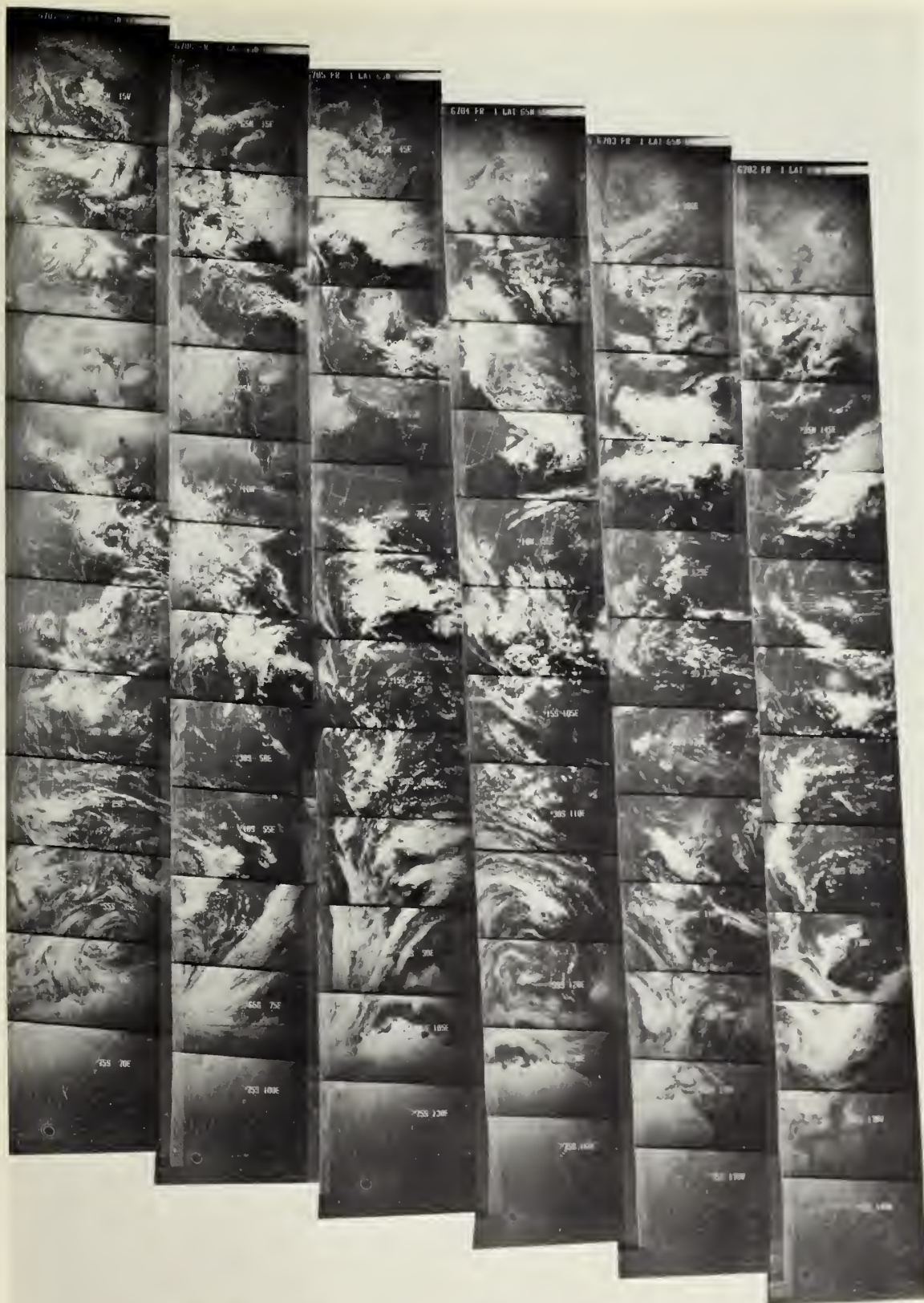
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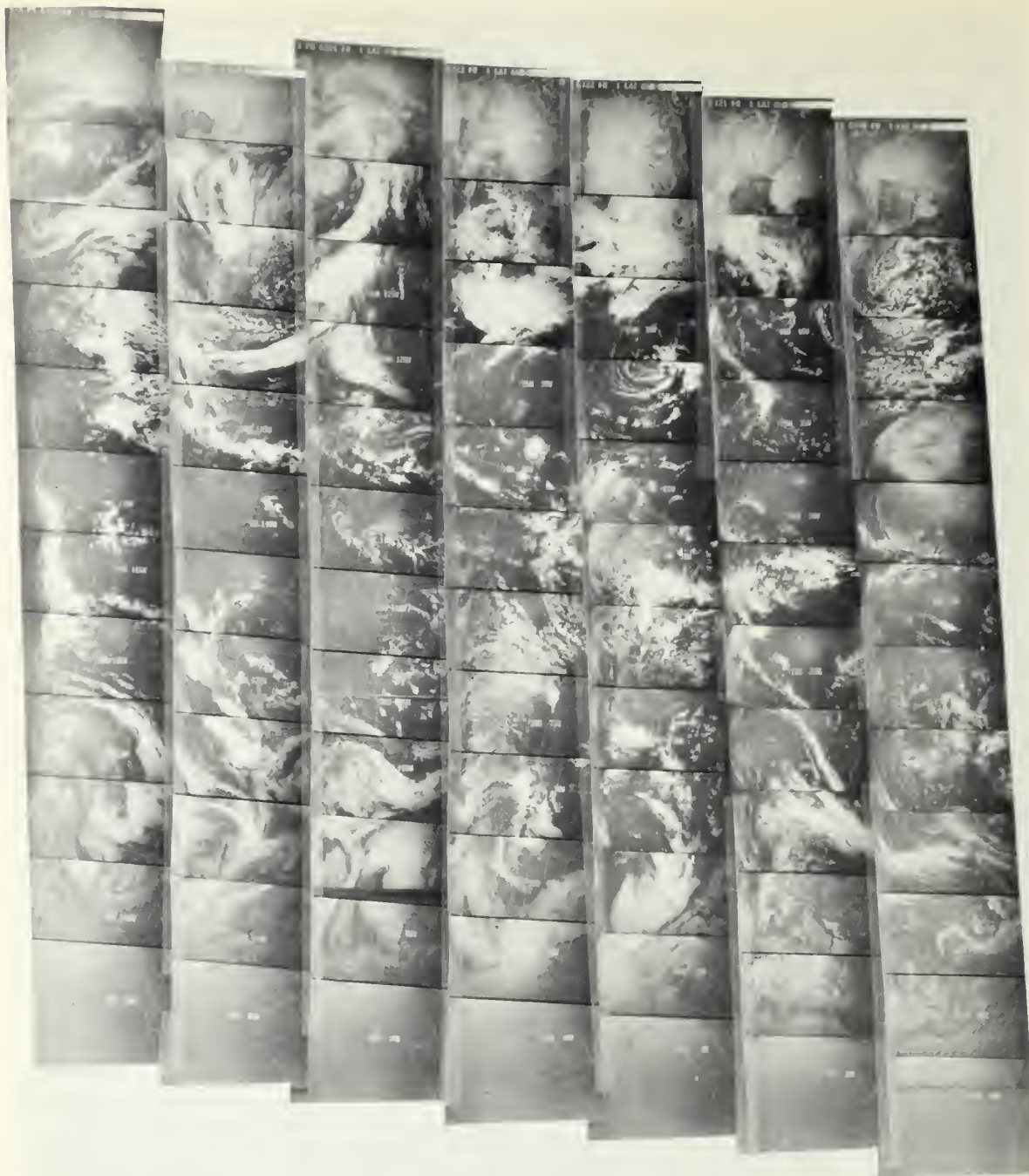
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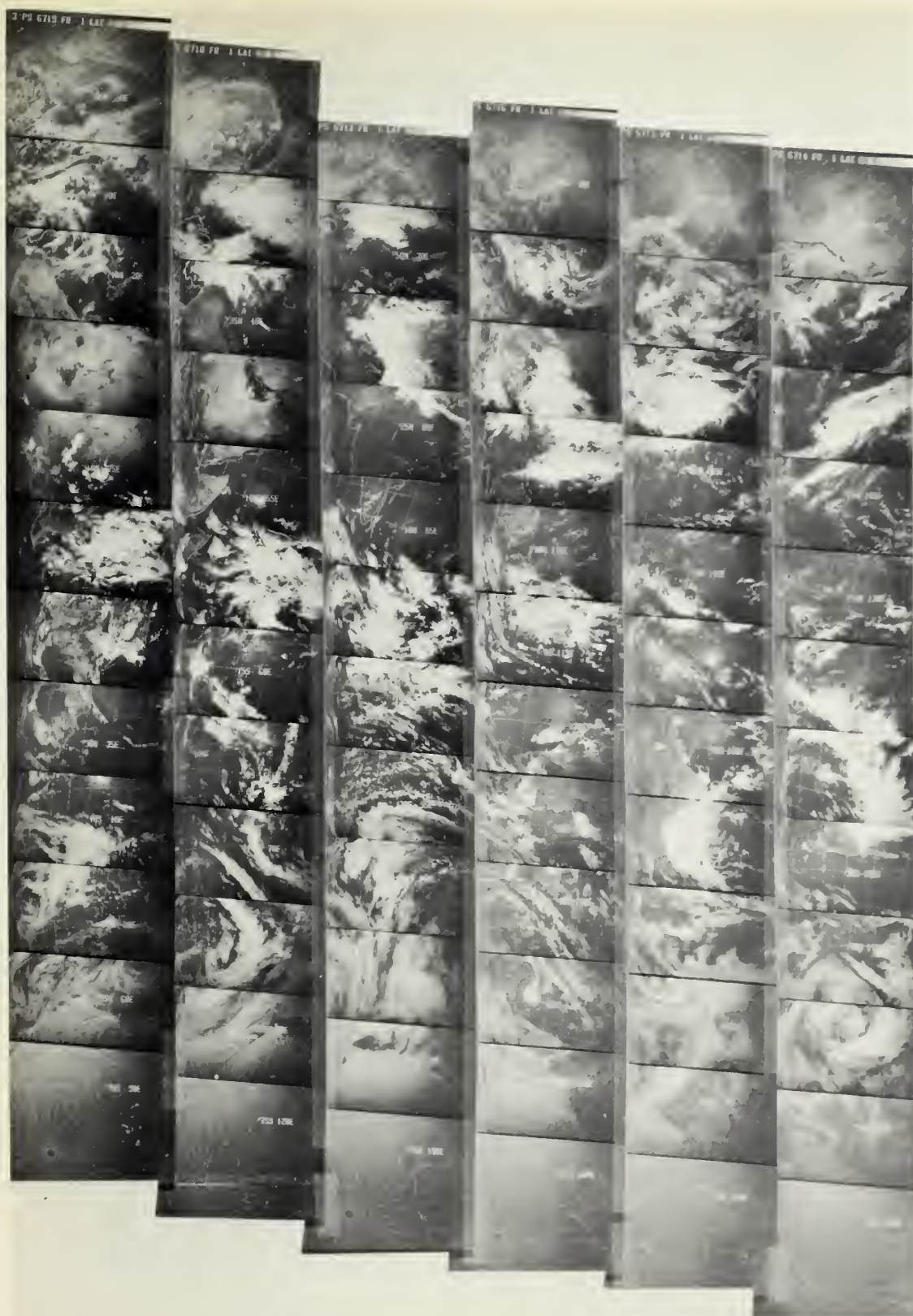
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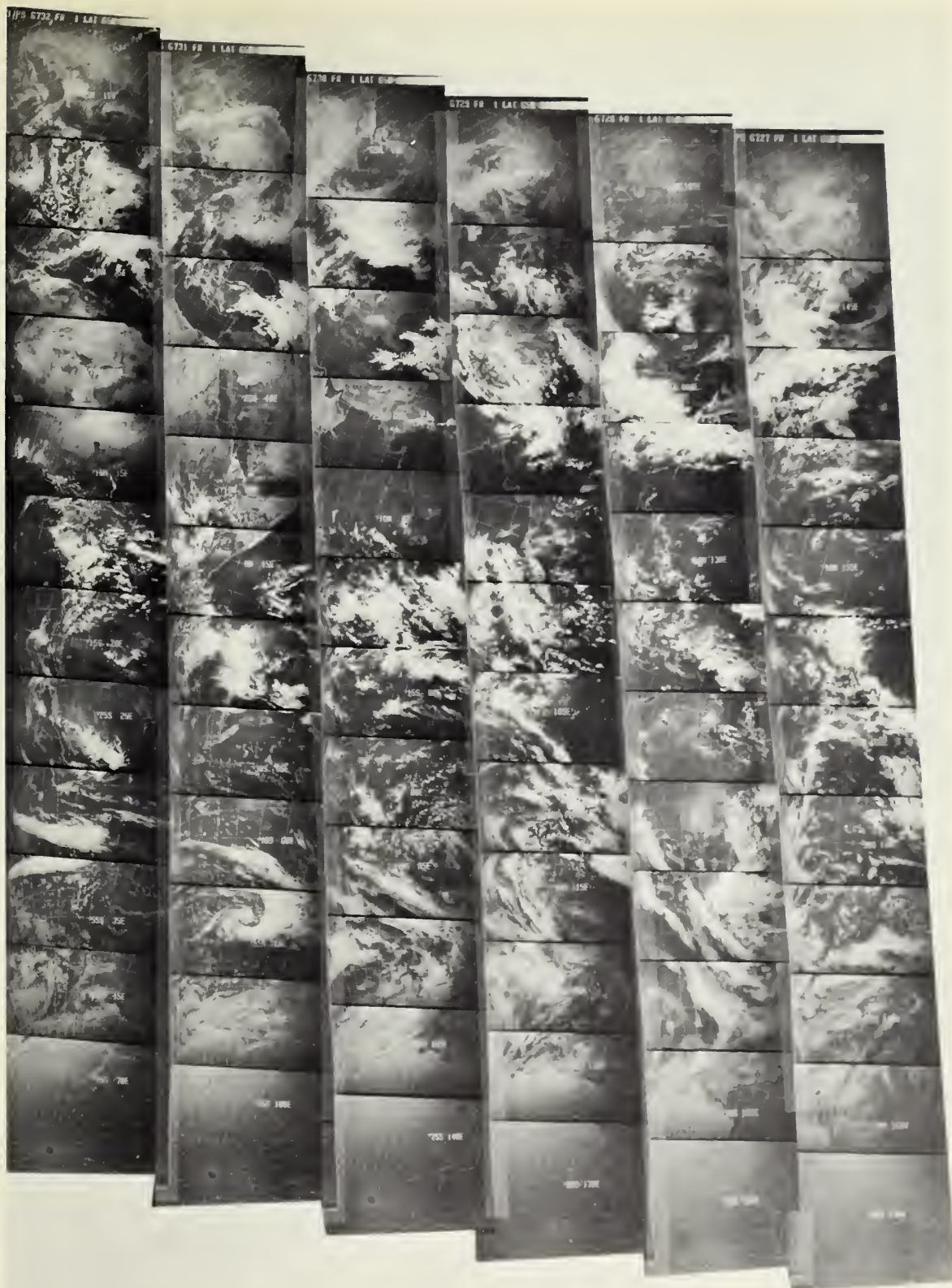
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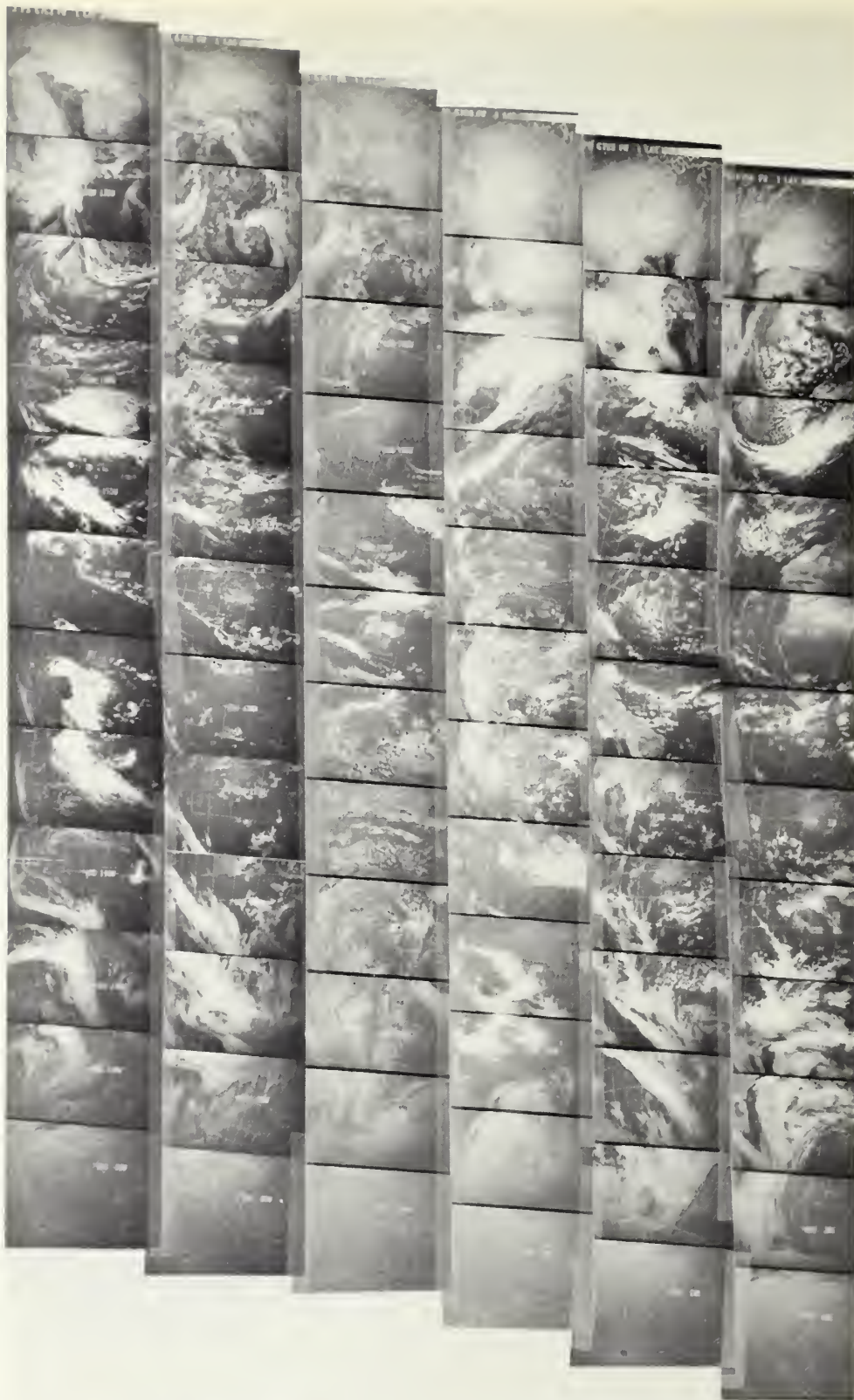
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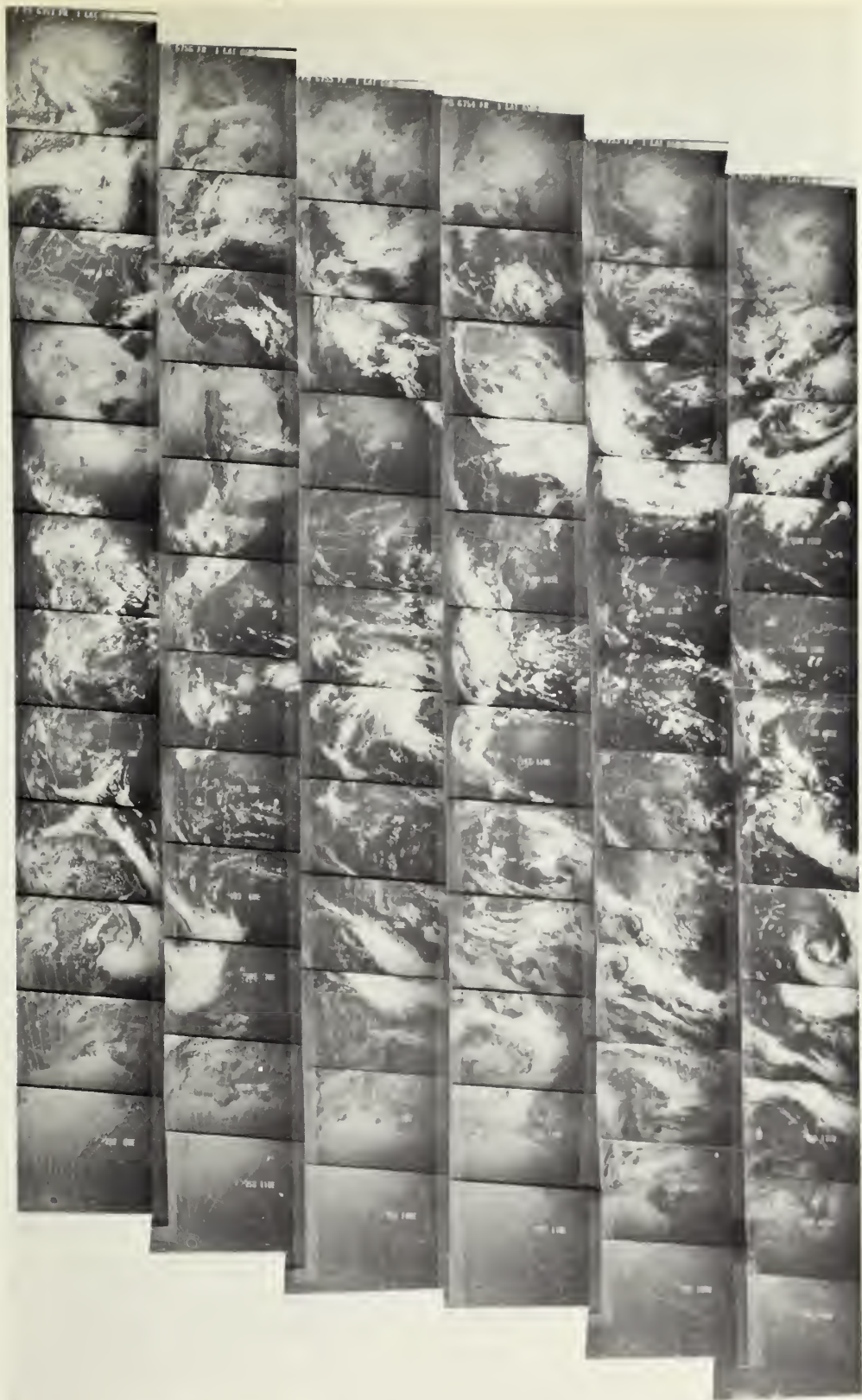
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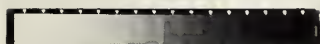
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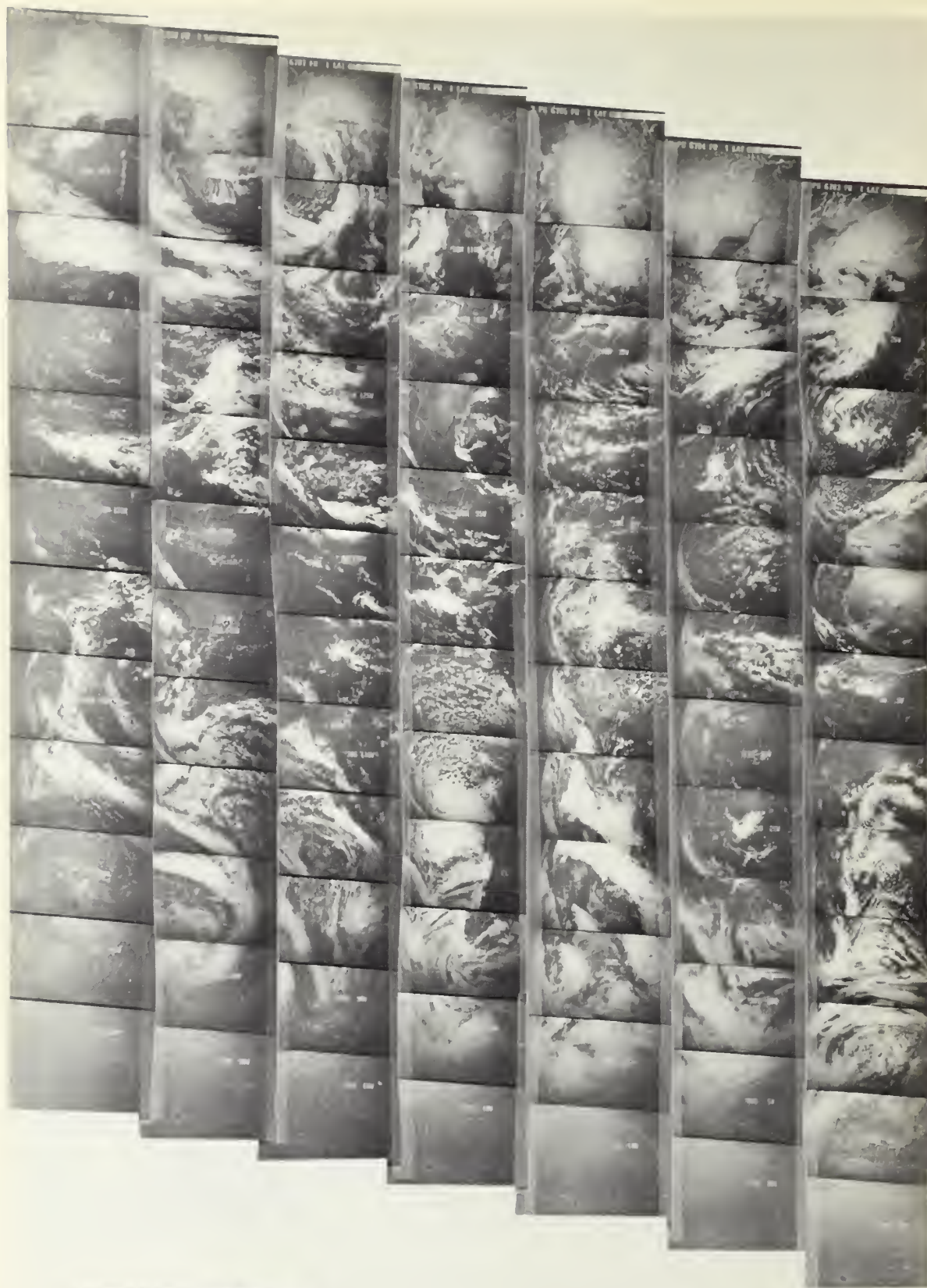
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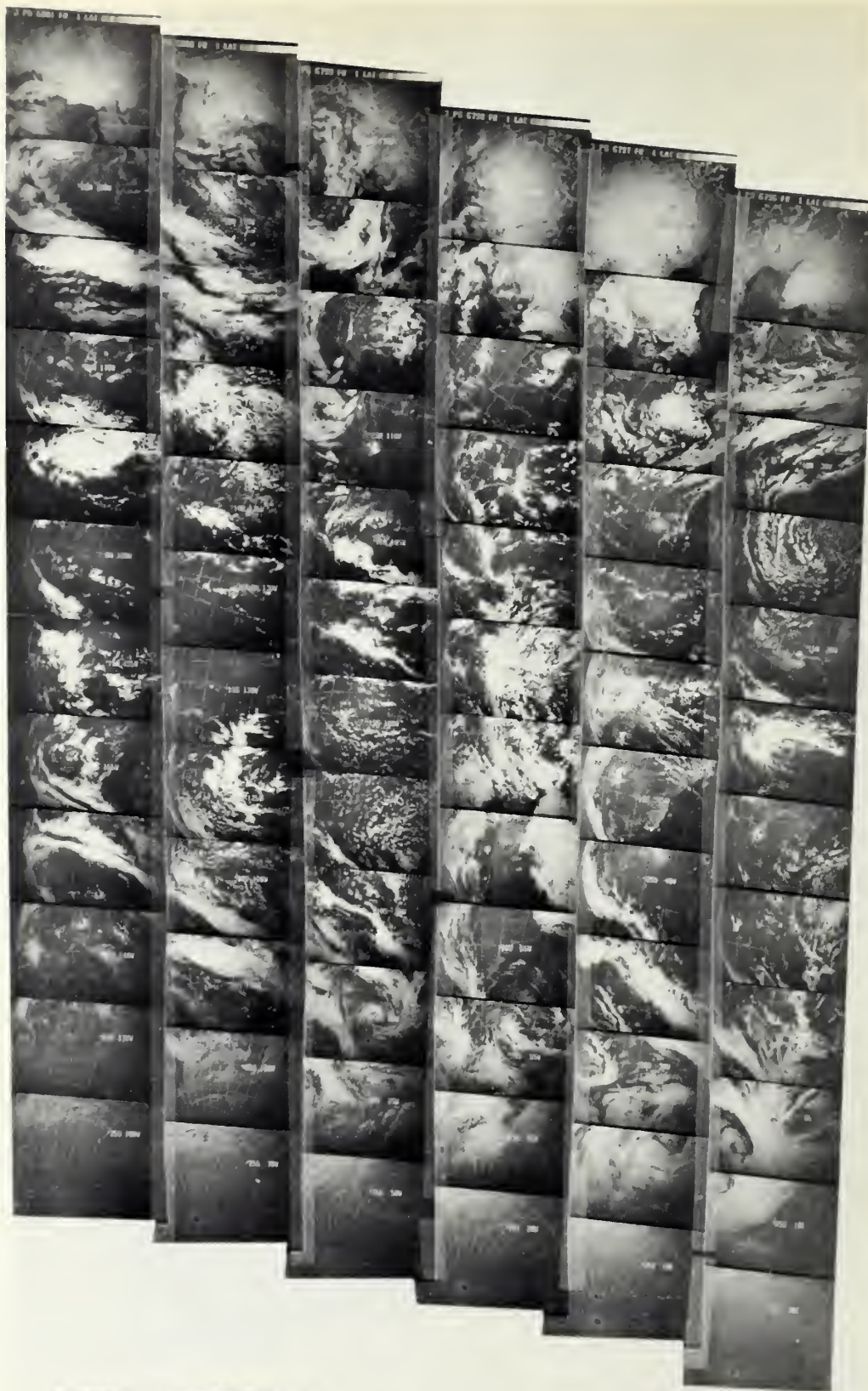
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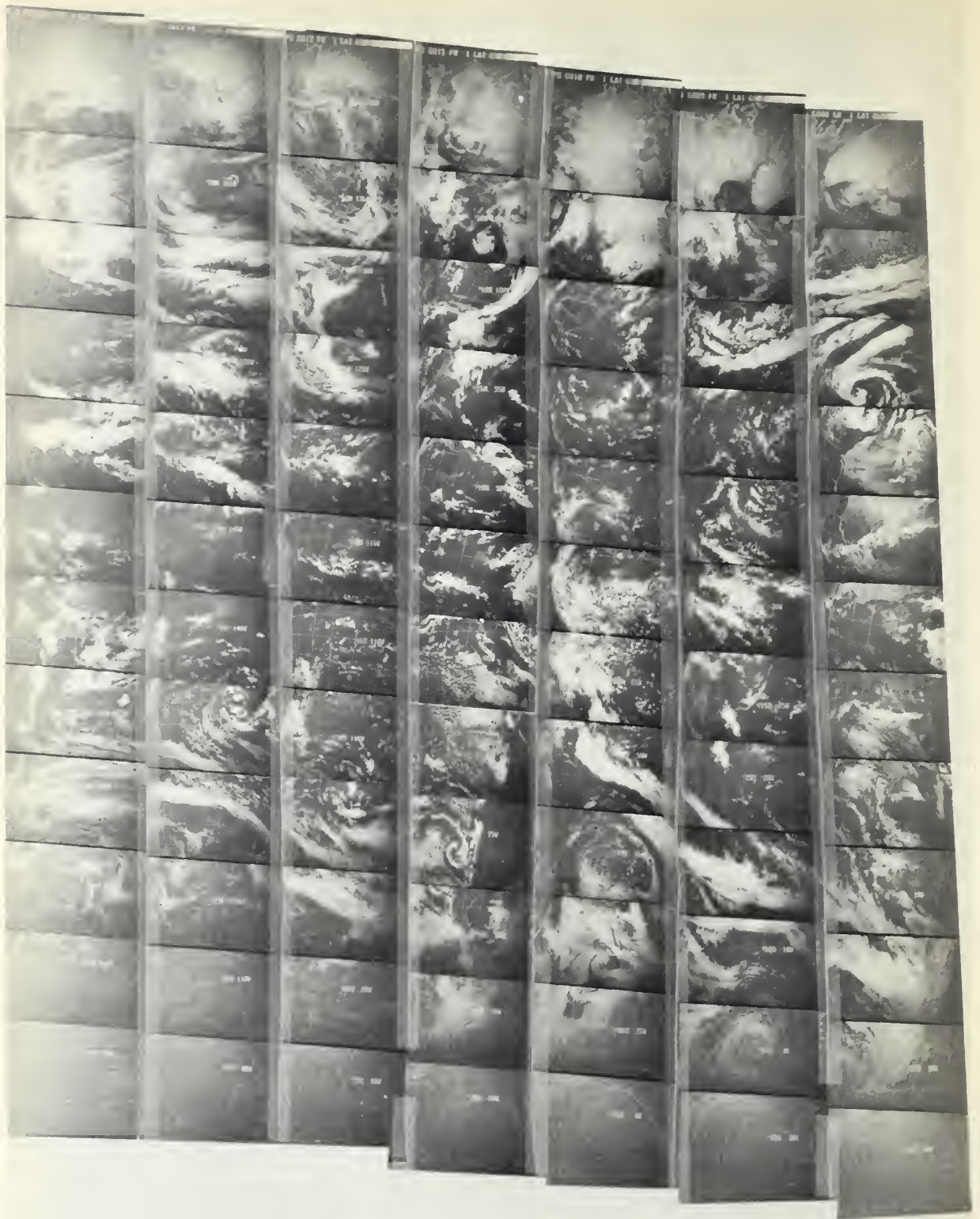
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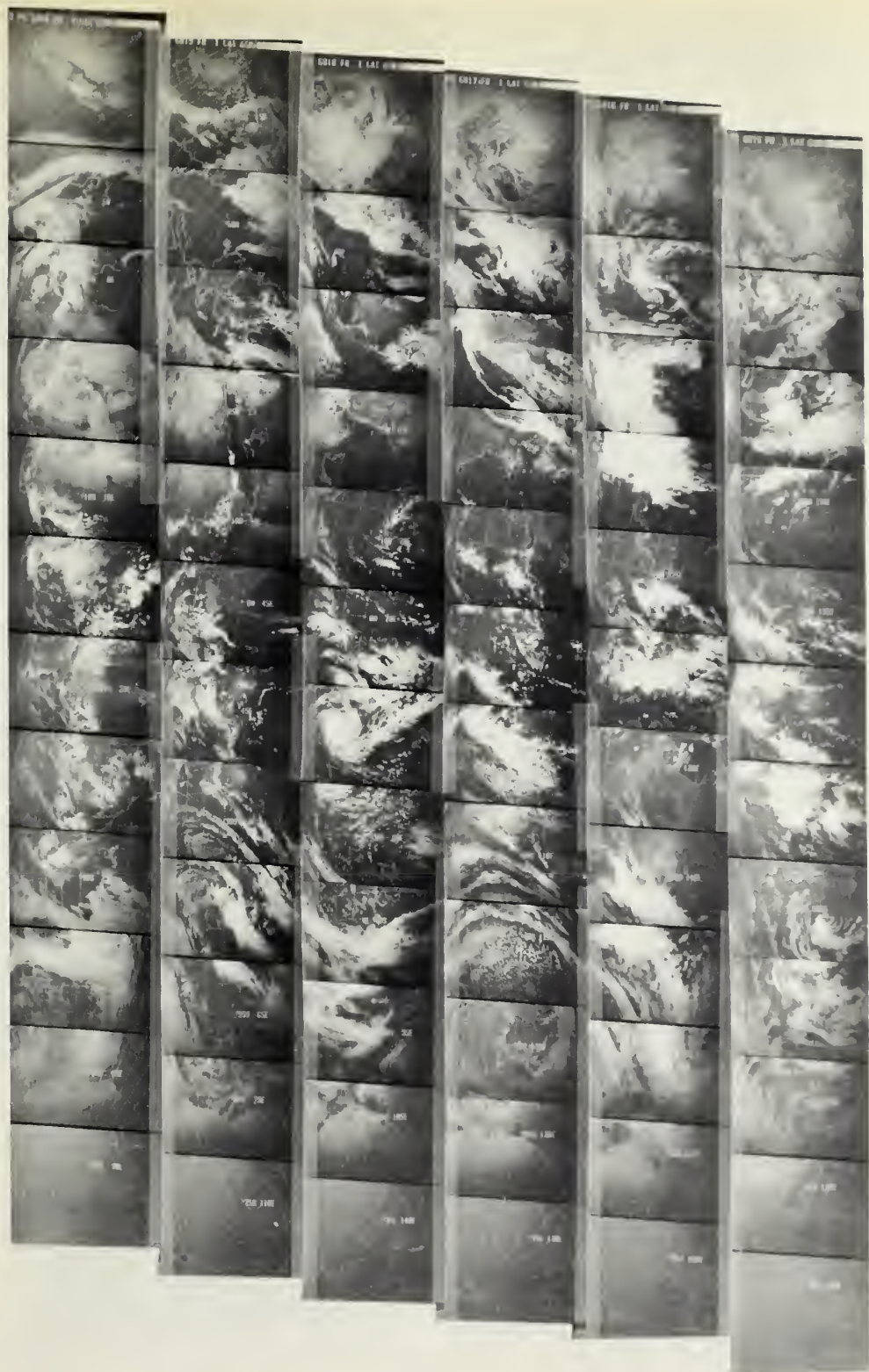
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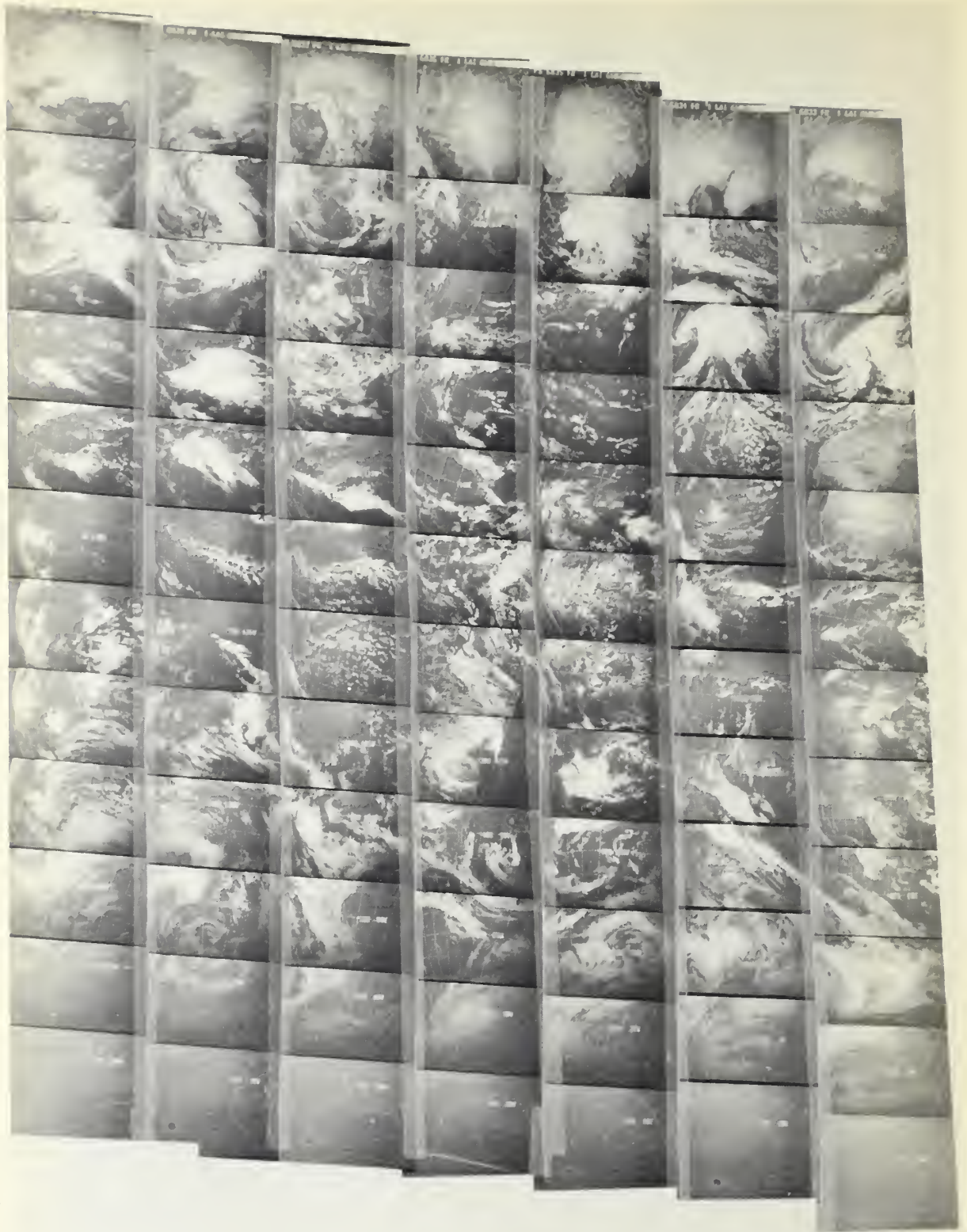
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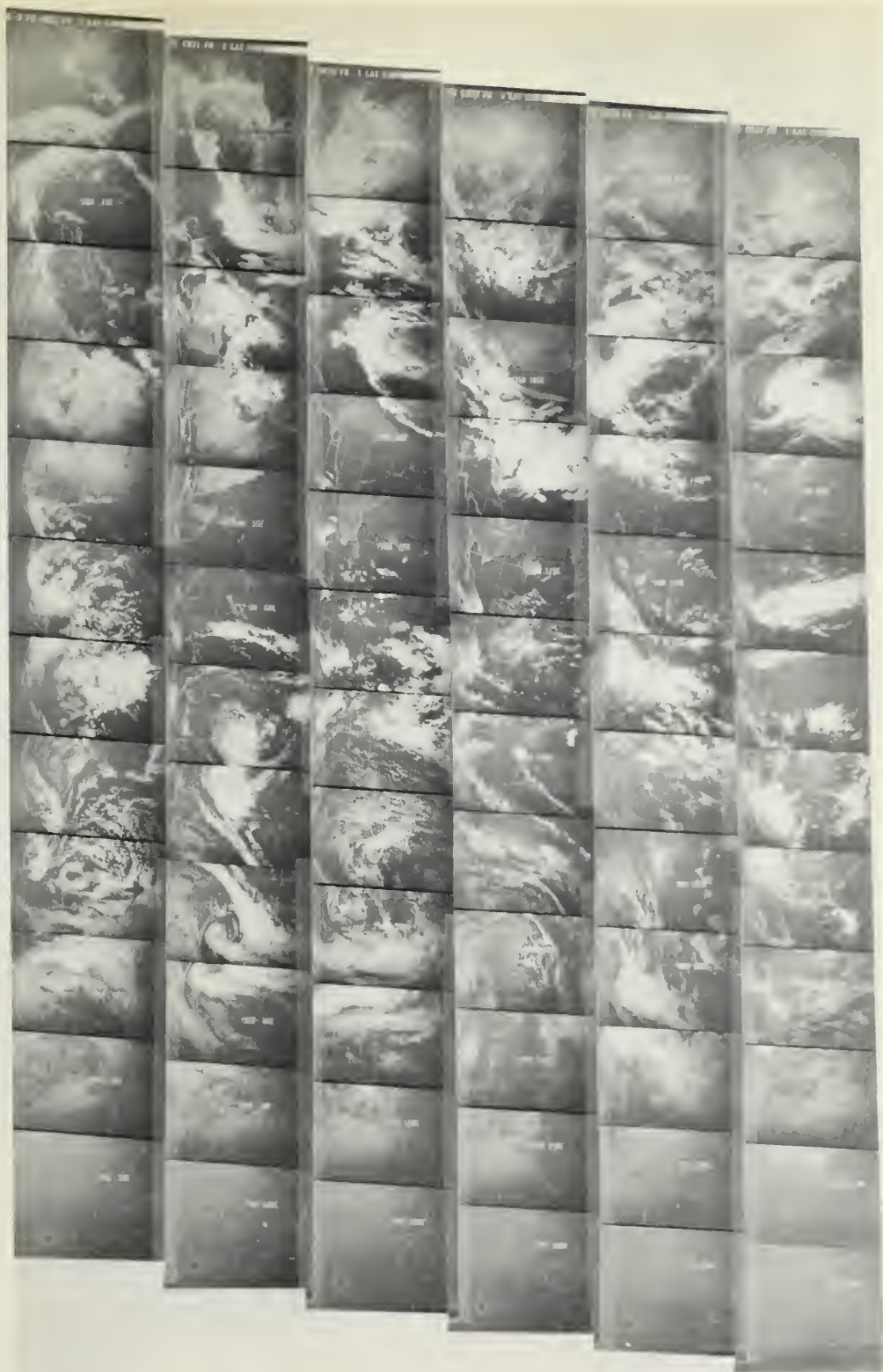
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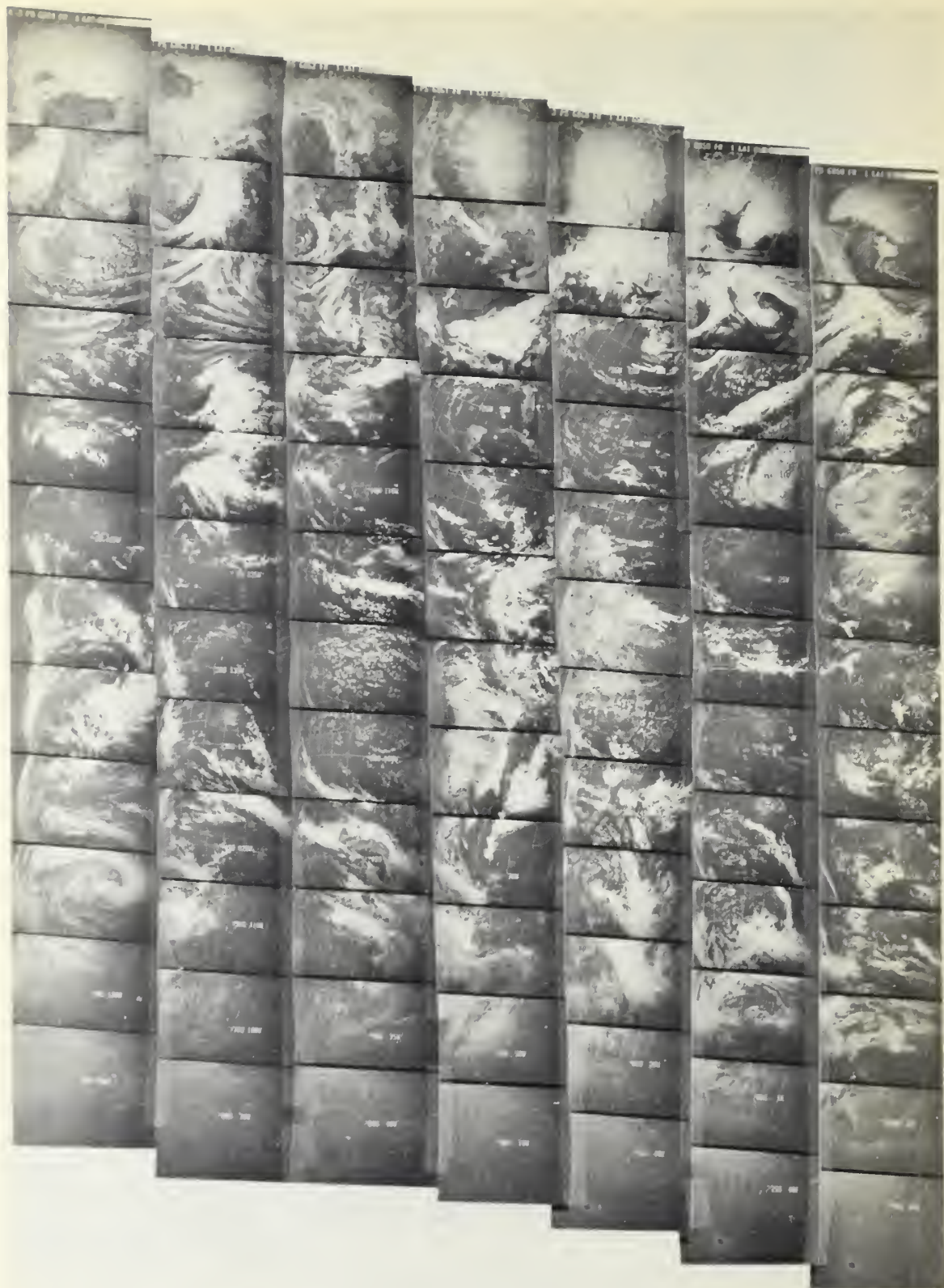
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- No. 5.315 "Catalog of Meteorological Satellite Data - ESSA 3 and ESSA 5 Television Cloud Photography July 1, 1967 to September 30, 1967", published in 1968, price \$2.00.
- No. 5.316 "Catalog of Meteorological Satellite Data - ESSA 3 and ESSA 5 Television Cloud Photography October 1, 1967 to December 31, 1967", published in 1969, price \$2.00.

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